1st Ed., Jan. 1967

COAST SURVEY

UNITED STATES - GREAT LAKES

WISCONSIN

RECREATIONAL CHART 14916

LAKE WINNEBAGO AND LOWER FOX RIVER

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

10th Ed., Jul. /02

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

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HOW TO USE YOUR RECREATIONAL CHART

The purpose of this insert is to assist you in the use of this series of charts. If you are an accomplished sailor and navigator, familiar with charts and their use, then you can remove these introductory pages without affecting the use of your charts. These notes are for the use of the occasional or new chart user who sometimes has to look up the meaning of data appearing on the chart.

A. CHART VS. MAP

There are several major differences between a chart and a map, the main one being that a chart shows water depths while a map does not. Whereas a map tries to show every detail and elevation on land with a uniform blue for water, a chart shows only enough of the land features for orientation while contouring the water depths.

B. INDEX

The index of sheets shows you where each sheet of the series fits. To assist you in moving from one sheet to the next the sheets overlap and the borders of the individual sheets give the number of the adjoining sheet.

C. GENERAL CHART INFORMATION

Each sheet has the following characteristics:

Scale: Large, in order to show all navigationally important detail. A scale of 1:15,000 means that one inch on the chart represents 15,000 inches on the ground.

Distance: Bar scales are provided for measurement in both feet and miles.

Colors: Buff is used for all land areas, blue tint for water 1 to 6 ft ft deep, light blue tint for water 6 to 12 ft deep, white for water over 12 ft deep, yellowish-green for shallow areas that are uncovered during periods of low water, black for the shoreline and for man-made structures, and magenta for lights and important notes.

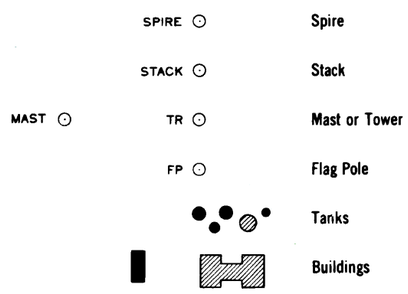
D. DEPTHS

The main purpose of a chart is to depict or indicate depths in order for you to stay in waters deep enough for your boat. To do this, you have to know the draft of your own craft (the depth of water required to keep any part of your boat from touching bottom) and the depth of the area you are moving in. Where the water is deep enough to pass your craft safely, you may cruise at will. Where it is not, you should not enter.

All point depths (soundings) and depth contours are given in feet below Low Water Datum. This is an artificial fixed water surface used as a base for measurement, and is usually lower than the water levels which normally occur during the navigation season. The fluctuations to be expected along with the actual record highs, lows, and 10-year average, are shown on the index (first) sheet for the chart folio. Generally, during the boating season the actual water level remains ½ to 1' foot above Low Water Datum and the actual depths are correspondingly greater than charted depths, so the depths shown on the chart can be used with a slight margin of safety. But to be sure, particularly during periods of low water levels, the latest Monthly Bulletin of Lake Levels should be used with your chart. In addition, local newspapers and radio stations carry announcements of water levels and forecasts.

E. LOCATING YOURSELF

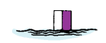
1. **Landmarks**—The secondary purpose of a chart, to enable you to know your boat's location, is made easy within sight of land by the use of the prominent shore line landmarks and numbered buoys or watermarkers. The most obvious landmarks from the water are large smoke stacks, towers, masts and tanks. Knowing the chart symbols for these will assist you quickly to orient your chart:



On the open lake at some distance from land, the problem of location is more difficult, but from the standpoint of sufficient depths, is not as important since the water will generally be deep enough for small craft operation. However, you should check your chart to be sure.

E. 2. Buoys—The "highway" markers of the water channels are the numbered buoys. These take several sizes and shapes such as cans (squat cylinders) and nuns (cylinders with conical tops) and are placed along the sides of a channel, at turns, at points where channels divide, at harbor and marina entrances, and to mark certain obstructions, such as shoals and other underwater hazards. Those along a given channel are placed in an increasing numbered sequence moving upstream or from seaward with the even-numbered markers on the starboard (right hand) side and the odd-numbered on the port (left hand) side of the channel. In addition, the even-numbered (starboard) markers are red in color while the odd-numbered (port) markers are green. Naturally, this sequence is reversed if you are moving downstream or seaward, with even (red) on your port and odd (green) on your starboard. Identification of such aids while you are cruising not only directs or warns you but also gives you an excellent check of your position. The symbol for a floating buoy is:

Examples of floating buoys are:

Chart Symbol	Actual Appearance	Name	Meaning
G C "7"		Green Can No. 7	Mark left side of channel (when traveling upstream)
R N "4"		Red Nun No. 4	Mark right side of channel (when traveling upstream)
GR C		Horizontally Banded Can (unnumbered)	Marks an obstruction or junction of two channels
RW C		Vertically Striped Can (unnumbered)	Marks the fairway (middle of the channel)

3. Other Location Aids—The names of many factories, docks, and marinas can be read from the water and likewise identified on the chart to assist you in locating yourself. Other aids are bridges, overhead cables, and sometimes partly submerged objects that can be located on the chart as well as physically seen.

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F. NIGHT NAVIGATION

If you must operate your craft after dark, the chart will help you to both locate yourself and point the way—by use of the navigation lights. Some of these lights are stationary, while others are floating or buoys.

The symbol for a stationary light is a black dot with a magenta flare: A floating light symbol is the same as that for a buoy, with a magenta disc around it:

Lighted buoys or markers are numbered and colored in the same way as unlighted buoys. The additional letters have the following meanings:

Lt	Light	Iso	Isophase
Ref	Reflector	F	Fixed
Vert	Vertical	Fl	Flashing
Y	Yellow	IQ	Interrupted Quick
G	Green	Oc	Occulting
Or	Orange	Q	Quick
R	Red	Mo (A)	Short-long Flashing
W	White		
B	Black		

The different colors of lights have no meaning other than making it possible to tell them apart, except that lighted green buoys marking the port side of a channel when proceeding from seaward show a green light, while lighted red buoys marking the starboard side show a red light.

Examples:

G "23" Fl G 4s — Green Buoy No. 23 (port side going upstream) with a flashing Green Light

R "28" Q R — Red buoy No. 28 (starboard side going upstream) with Quick Flashing Red Light

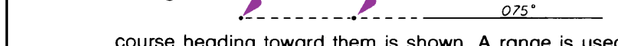
Fl G "3" — Stationary Light No. 3, with Flashing Green Light

Fl 4s 9 St M — Stationary Light, Flashing White, visible for 9 statute miles

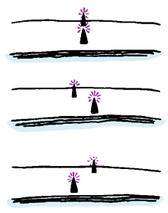
Fl (2) — Stationary White Light, flashing in groups of two or more flashes

Range Lights—You can steer down the center of a navigation channel or properly enter a harbor by following a set of range lights, where available. These are fixed lights, higher than the usual buoy lights, some distance apart but in line with the channel, and with the rear (farther) light higher than the front (closer) light:

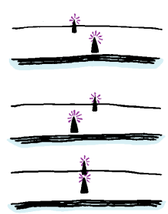
The lights are connected on the chart with a broken line and the true course heading toward them is shown. A range is used as follows:



If you are moving **toward** the range lights and:

You see this	It means
	You are in the channel and on course.
	You are left of proper course, guide right until lights are in line.
	You are right of proper course, guide left until lights are in line.

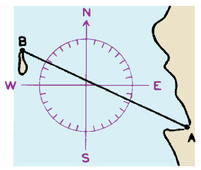
If you are moving **away** from the range lights, the opposite is true:

You see this	It means
	You are to the right of course, guide left until lights are in line.
	You are to the left of course, guide right until lights are in line.
	On course.

G. NAVIGATING BY COMPASS

It is a simple matter to use your chart for open water navigation. The only tools you need are a compass, a straightedge and a protractor. On each sheet of your volume is a compass rose made up of two circles. The outer circle is aligned with true north and the north-south or vertical lines on your chart. The inner circle is aligned with magnetic north for the area covered by that sheet. Each sheet should be checked since the magnetic variation (the difference between true north and magnetic north) varies from sheet to sheet, and is given in the center of the circle.

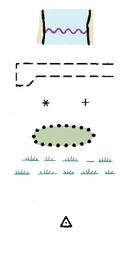
To plot a course, draw a light line on the chart connecting the points A & B that you are traveling between. Using your protractor, read the true courses as, say 295° in the figure shown. (If you were traveling from B to A, the course would be 180° different from 295°, i.e., 115°). To convert this chart course to a magnetic course, determine if the magnetic variation is west or east. If west, then add the variation to the true value—if east, subtract. Therefore, if the variation were 3°30′W, then 295° + 3°30′=298½° would be the magnetic course from A to B.



More complete instructions in plotting courses and using the compass (especially with regard to compass deviations) may be obtained from local boating groups.

H. OTHER CHART SYMBOLS

Some of the other more common symbols you will find on your chart are:



Submerged cable (electrical, telegraph, telephone, etc.) – do not anchor

Limits of dredging

Rock

Area uncovers at low water

Swamp area

Triangulation Station (fixed point for surveying, usually not visible from a boat).

⊙ NWS SIG STA — National Weather Service Signal Station

For complete list of chart symbols and abbreviations see Chart No. 1 available from the National Aeronautical Charting Office, FAA Distribution Division (AVN-530), Riverdale, Maryland 20737.

I. SERVICES AND PUBLICATIONS

Some marinas, boatyards, docks, yacht clubs and ramps are shown along the shore line. Various types of services and supplies can be obtained at these locations. In some areas, one of the major oil companies may publish a map listing these facilities.

Other publications with additional information are:

"Light List -- Vol VII: Great Lakes" -- USCG-COMDTPUB P16502.7
"Rules and Regulations for Uninspected Vessels" -- USCG-258
"Local Notice to Mariners" -- USCG (issued periodically)
"Notice to Mariners" -- NIMA (issued periodically)
"Recreational Boating Guide" -- USCG-340
"Pleasure Craft" -- USCG-290
"Navigation Rules" -- USCG-COMDTPUB M16672.2C
"Nautical Chart Symbols, Abbreviations and Terms" -- NOS-Chart No. 1

Light List and other USCG publications may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; from the GPO Branch Bookstores located in many cities; or from GPO Sales Agents located in principal ports.

Keep your chart up to date—a new chart every couple of years is cheaper than a new bottom in your boat. Charts can be purchased at following locations:

National Aeronautical Charting Office
FAA Distribution Division (AVN-530)
Riverdale, Maryland 20737-1199
Counter Sales: 6501 Lafayette Ave., Riverdale, Maryland
(or from authorized sales agents)

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LAKE WINNEBAGO AND LOWER FOX RIVER

WISCONSIN

NOAA — NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION — U.S. DEPARTMENT OF COMMERCE — COAST SURVEY

Polyconic Projection
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

NOTE B

The channel legend reflects the Corps of Engineers project depth. The Corps of Engineers publishes the controlling depth periodically in the U.S. Coast Guard Local Notice to Mariners. For further information on channel depths, direct inquiries to Office of the District Engineer, Corps of Engineers, Detroit, Michigan.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other privately maintained buoys are not all listed in the U.S. Coast Guard Light List.

NOTES

PLANES OF REFERENCE OF THIS CHART (Low Water Datum)
LAKE WINNEBAGO ..... 745.8 ft.
FOX RIVER (Between Locks) ..... See table below
LAKE MICHIGAN ..... 577.5 ft.

Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.

AUTHORITIES. Hydrography and topography by the National Ocean Service, Coast and Geodetic Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

NOTE Z

NO-DISCHARGE ZONE, 40 CFR 140

This chart falls entirely within the limits of a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. Commercial vessel sewage shall include graywater. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 9th Coast Guard District in Cleveland, Ohio, or at the Office of the District Engineer, Corps of Engineers in Detroit, Michigan.

Refer to charted regulation section numbers.

Ⓟ Pump-out facilities

FATHOMS 1–17
FEET 6–102
METERS 1–31

LOGARITHMIC SPEED SCALE

1 2 3 4 5 6 7 8 9 10 15 20 25 30 40 50 60

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

MILES ABOVE MOUTH OF RIVER AT GREEN BAY

45 40 35 30 25 20 15 10 5 0

ELEVATION 745.8

LAKE WINNEBAGO

HEAD OF RIVER

Menasha Lock

Appleton Lock 1

Lock 2

Lock 3

Lock 4

Cedars Lock

Little Chute Guard Lock

Lock 2

Upper / Lower — Combined Locks

Kaukauna Guard Lock

Lock 1

Lock 2

Lock 3

Lock 4

Lock 5

Rapide Croche Lock

Little Kaukauna Lock

De Pere Lock

ELEVATION 577.5

GREEN BAY

MOUTH OF RIVER

750 700 650 600 550

FEET ABOVE SEA LEVEL IGLD (1955)

CAUTION

POTABLE WATER INTAKE (PWI)

Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Surgeon General (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

CAUTION

The buoys marking Lower Fox River south of De Pere Lock are privately maintained and are not shown on this chart.

PROFILE OF LOWER FOX RIVER

The rise from Green Bay (Lake Michigan) to Lake Winnebago is 168.3 feet when both lakes are at Low Water Datum. Along this 39-mile section of the Fox River, there are 17 lift locks and two guard locks, which have a minimum width of 35.0 feet and a minimum length of 144.0 feet. Lockage service is available from about May 15 to October 15. The United States maintains a channel with a depth of 6 feet from Lake Winnebago to DePere, and of 11 to 24 feet from DePere to Green Bay.

For additional information about Green Bay, the lower Fox River, and Lake Winnebago, see the latest edition of the U. S. Coast Pilot 6, or consult the U. S. Army Corps of Engineers Project Office in Appleton.

Chart 14916 Sheet No.		Miles above mouth of river at Green Bay	Lift in feet (At Low Water Datum)	Water Elevation (in feet)
2 thru 23	*LAKE WINNEBAGO*	39.0		745.8
22	MENASHA LOCK	37.0	9.7	736.1
26	APPLETON LOCK 1	31.9	8.0	728.1
"	" " 2	31.6	11.3	716.8
"	" " 3	31.3	9.8	707.0
"	" " 4	30.7	7.6	699.4
27	CEDARS LOCK	27.3	9.8	689.6
"	LITTLE CHUTE GUARD LOCK	26.6	0.0	689.6
"	" " LOCK 2	26.4	13.6	676.0
28	UPPER COMBINED LOCK	25.4	10.6	665.4
"	LOWER " "	25.4	11.9	653.5
"	KAUKAUNA GUARD LOCK	24.0	0.0	653.5
"	" LOCK 1	23.6	10.3	643.2
"	" " 2	23.4	9.6	633.6
"	" " 3	23.2	10.2	623.4
"	" " 4	23.1	10.2	613.2
"	" " 5	22.8	10.4	602.8
29	RAPIDE CROCHE LOCK	19.2	9.3	593.5
30	LITTLE KAUKAUNA LOCK	13.1	6.1	587.4
31, 32	DE PERE LOCK	7.1	9.9	577.5
34	*GREEN BAY (Lake Michigan)*	0.0		

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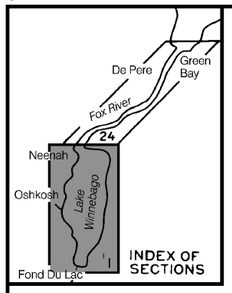


INDEX TO SHEETS
OF
LAKE WINNEBAGO
WISCONSIN

NOTE D

CAUTION

Mariners are warned that numerous uncharted stakes and fishing structures, some submerged, may exist in the area of this chart. Such structures are not charted unless known to be permanent.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot 6 for details.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.036" southward and 0.374" westward to agree with this chart.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area

Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging or trawling.

Covered wells may be marked by lighted or unlighted buoys.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

CAUTION

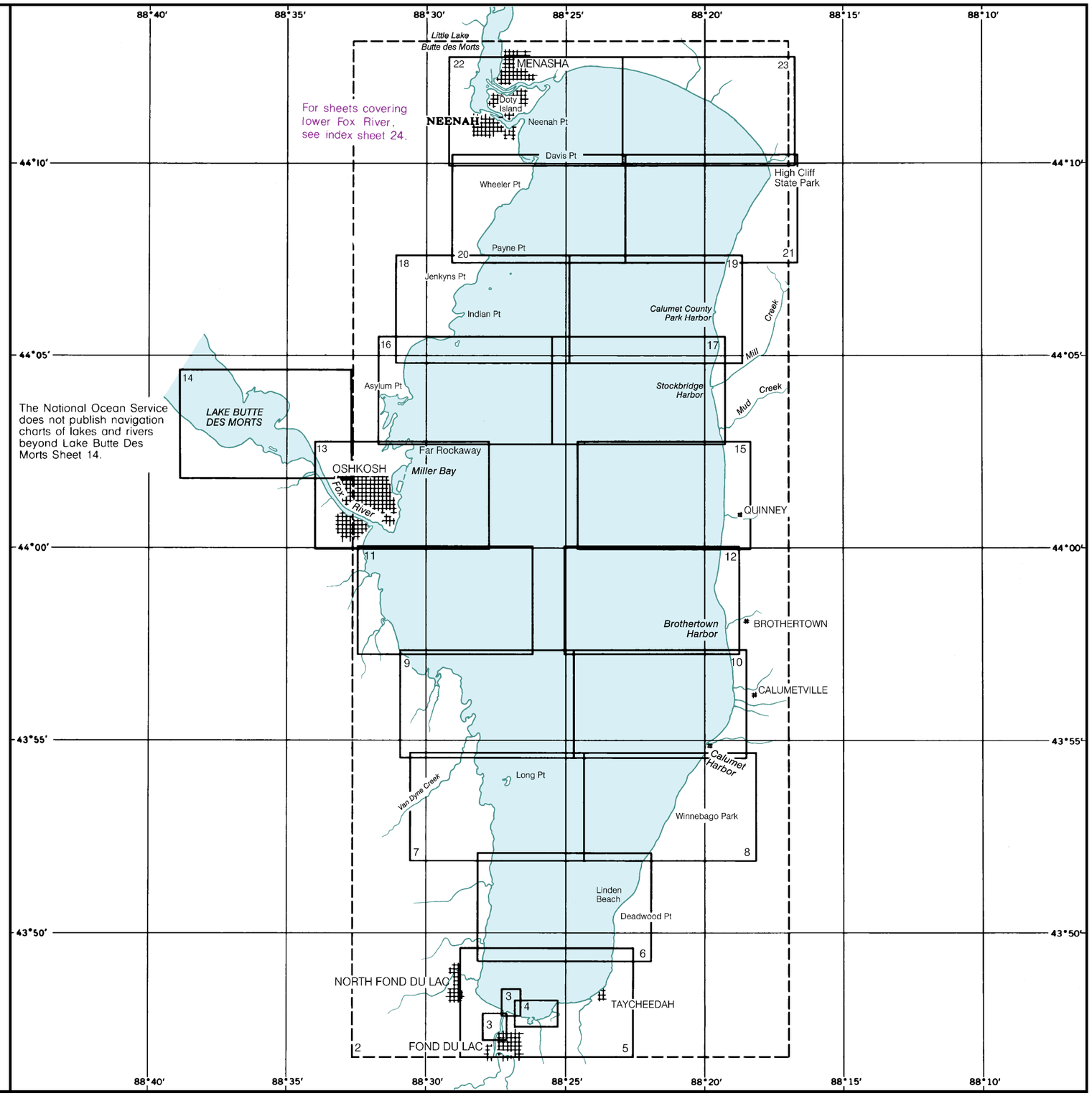
Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) ○(Approximate location)

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.



For sheets covering lower Fox River, see index sheet 24.

The National Ocean Service does not publish navigation charts of lakes and rivers beyond Lake Butte Des Morts Sheet 14.

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KAPP 1405

LAKE WINNEBAGO

Scale 1:80,000

SOUNDINGS IN FEET

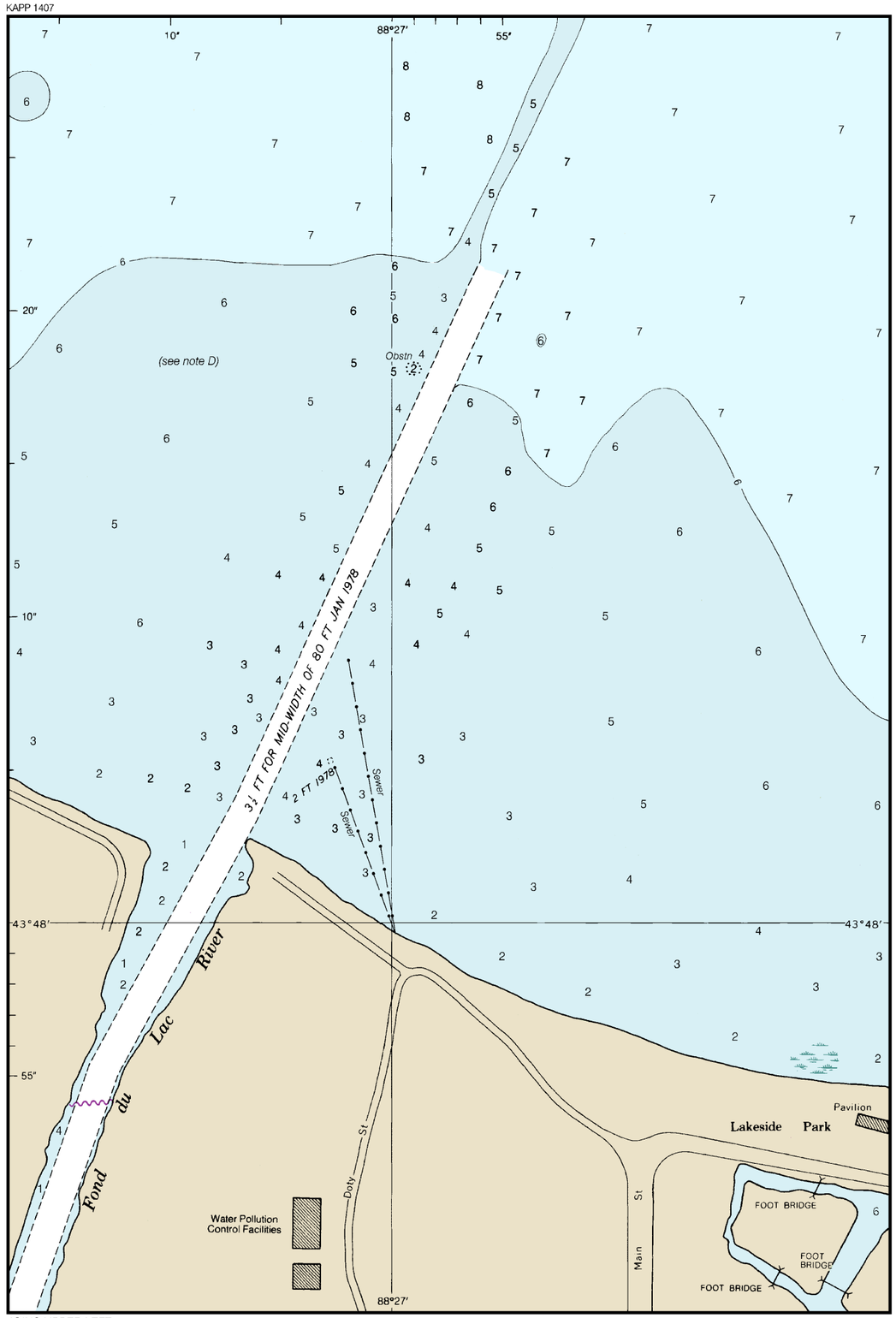
FEET 10000 5000 0 10000

STATUTE MILES 3/4 2 1/2 2 1/4 0 .5 1 2 3

Last Correction: 3/5/2010. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

JOINS LOWER RIGHT

KAPP 1407



JOINS 4

JOINS UPPER LEFT

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88°26'30"
88°26'
88°25'30"
43°48'
55"
10"
20"

(see note D)

Luco
Luco Cr
Perry's Marine
Hoist
rky
151
Dr
Winnebago
Rd
Luco

Pavilion
FIXED BRIDGE
FOOT BRIDGE
FIXED BRIDGE
FOOT BRIDGE
FOOT BRIDGE
FIXED BRIDGE
FOOT BRIDGE
FIXED BRIDGE VERT CL 2 FT REP
Fond Du Lac Yacht Club
Hoist
Ramp
Lakeside Park Marina
Lakeside Park
FOOT BRIDGE
St
Main
Ramps
Oregon St
St
Allen
Ave
Park
FIXED BRIDGE
De Neveu Cr

F O N D D U L A C

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
COAST SURVEY

LAKE WINNEBAGO
FOND DU LAC MUNICIPAL HARBOR

Scale 1:5,000

SOUNDINGS IN FEET

FEET

100 0 500 1000 1500

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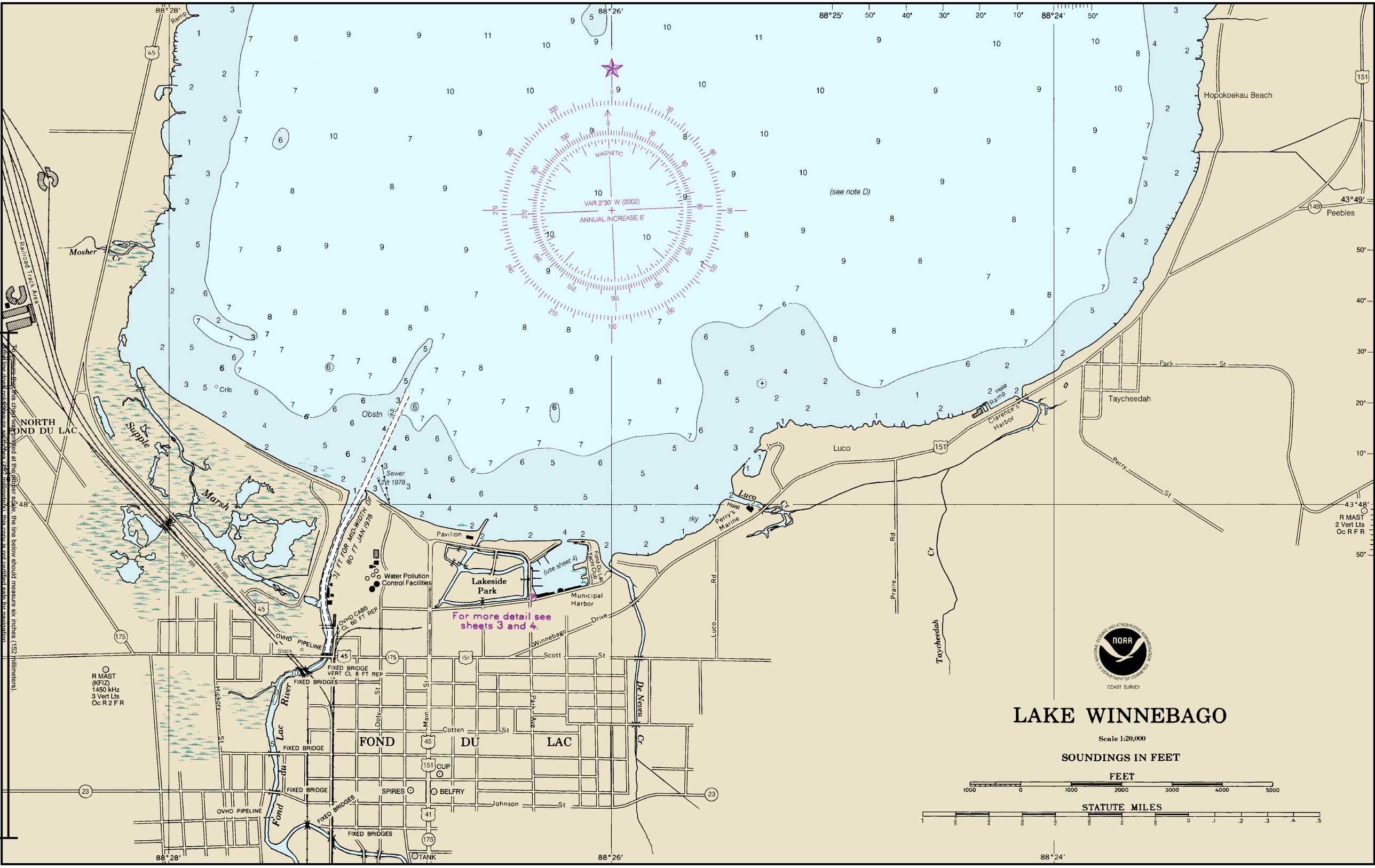

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 .2 .3 .4 .5

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14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02
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NOAA
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 .8 .6 .4 .2 0 .1 .2 .3 .4 .5

88°28' 88°26' 88°24' 43°52' 43°51' 43°50'

Gladstone Beach
OVHD CAB
Sylvan Bay
Linden Beach
Minawa Beach
Deadwood Point
R MAST
3 Vert Lts
Oc R 2 F R
Brook Haven Beach
Hopokoekau Beach
Anderson Cr.
Long Beach
Ramp
Lake Shore Dr
45
151

MAGNETIC
VAR 2°30' W (2002)
ANNUAL INCREASE 6'

(see note D)

88°25' 50" 40" 30" 20" 10" 88°24' 50" 88°22'

JOINS 5

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02
Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

JOINS 9

88°30′ 88°28′ 88°26′ 43°54′ 43°53′ 43°52′

Evergreen Ave
Twin Point Resort Ramp
45
Howlett Rd
Van Dyne Creek
County Line Rd
Ramp
Hoist
Wendt's Bar & Harbor Inc
Lincoln Rd
Long Point
Abraham Reef
(see note D)
Cy
rky

NOAA
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET
1000 0 1000 2000 3000 4000 5000

STATUTE MILES
1 0 .1 .2 .3 .4 .5

MAGNETIC
VAR 2°30′ W (2002)
ANNUAL INCREASE 6′

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JOINS 6

JOINS 10

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

STATUTE MILES

NOAA — National Oceanic and Atmospheric Administration — U.S. Department of Commerce — Coast Survey

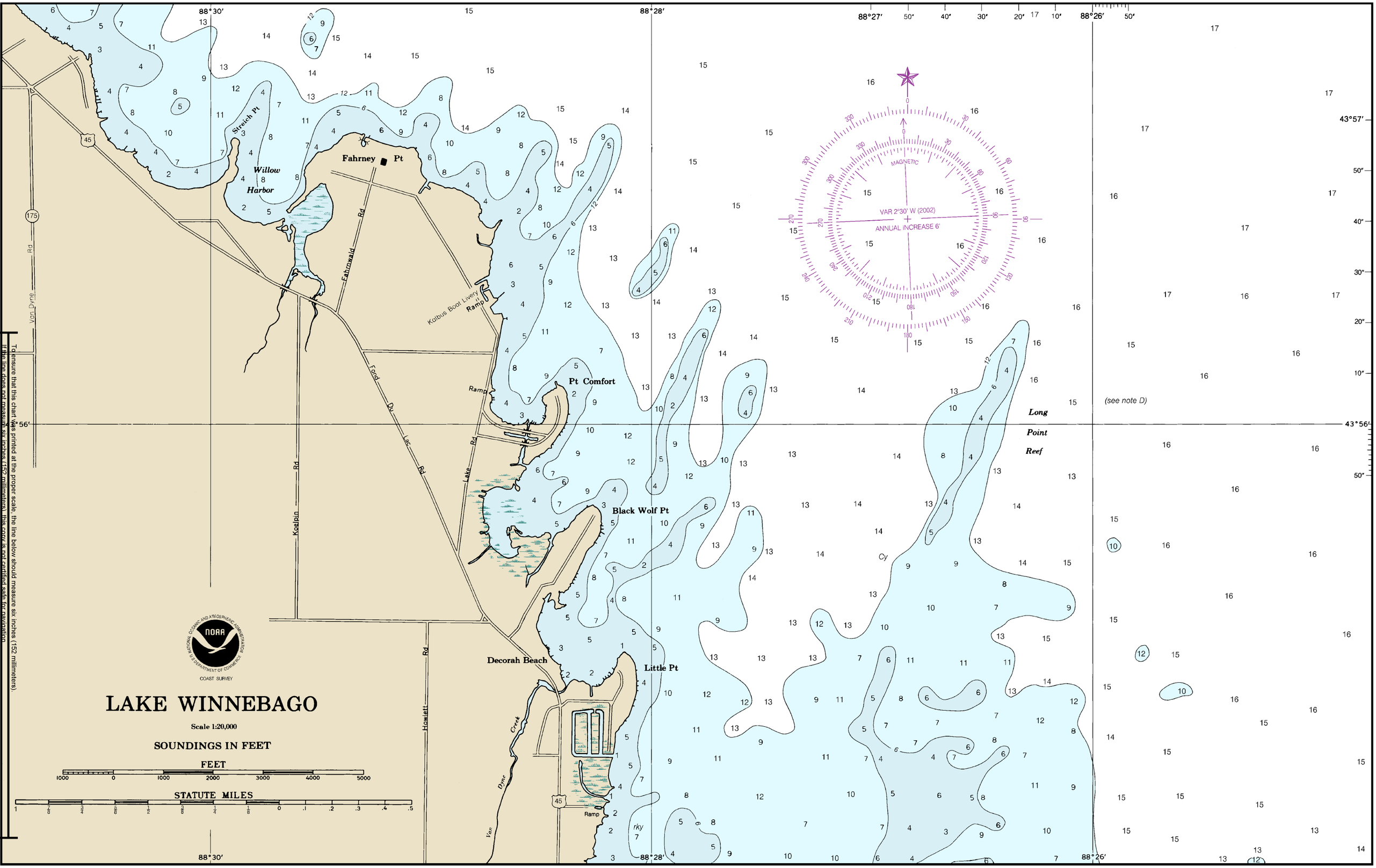
VAR 2°45' W (2002)
ANNUAL INCREASE 6'

Winnebago Heights
Highland Park
Winnebago Park
Willow Beach
Welling Beach
Foot Bridge
Fisherman's Road
Ramp
rky
sy
(see note D)
151

88°24′ 88°22′ 88°20′
43°54′ 43°53′ 43°52′

JOINS 6

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)



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COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 0 .1 .2 .3 .4 .5

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 7

Last Correction: 7/18/2002. Cleared through:
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JOINS 12

KAPP 1415

CALUMET HARBOR

Scale 1:5,000

SOUNDINGS IN FEET

FEET

100 500 1000

4 FEET JAN 1978

Pipe

Creek

Ramp

Ramp

Observation Tower

Columbia Park

Calumet Harbor

43°55′

88°20′

88°19′45″

KAPP 1414

88°21′ 50″ 40″ 30″ 20″ 10″ 88°20′ 50″

43°57′ 50″ 40″ 30″ 20″ 10″ 43°56′

Cy

St

Ramp

Artesia Beach

Pukwana Beach

Middle Bay Beach

Velvet Beach

Pipe Cr

Pipe

(use inset)

oTr

Columbia Park

Calumet Harbor

151

MAGNETIC

VAR 2°30′ W (2002)

ANNUAL INCREASE 6′

88°24′ 88°22′

43°56′

(see note D)

NOAA

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION · U.S. DEPARTMENT OF COMMERCE

COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 .5 0 .1 .2 .3 .4 .5

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14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 8

Last Correction: 7/18/2002. Cleared through:
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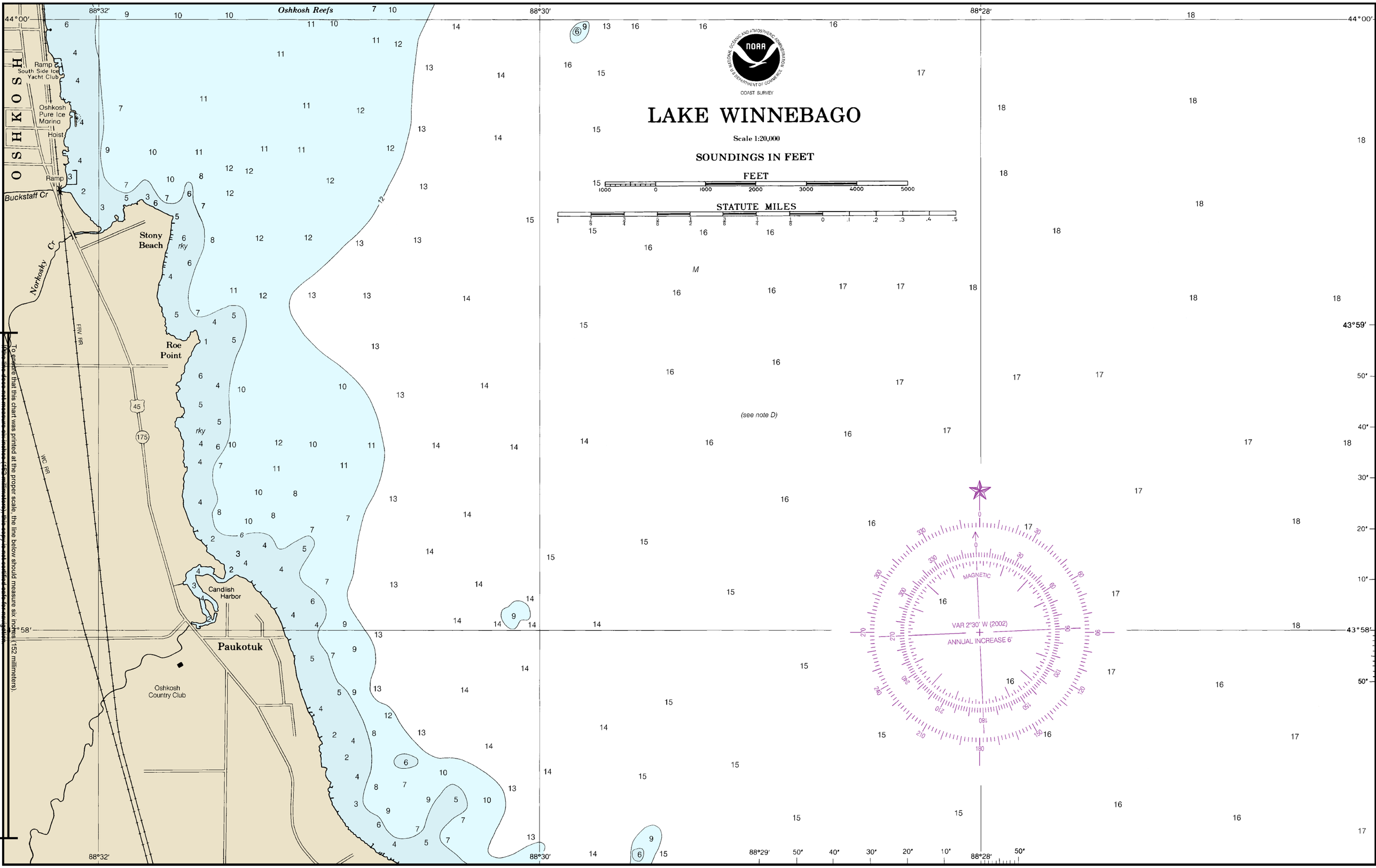
JOINS 13



JOINS 9

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

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LAKE WINNEBAGO

COAST SURVEY

Scale 1:20,000

SOUNDINGS IN FEET

FEET

STATUTE MILES

88°24′ 88°22′ 88°20′ 88°21′

44°00′ 43°59′ 43°58′ 43°57′

50″ 40″ 30″ 20″ 10″

(see note D)

M

VAR 2°30′ W (2002)

ANNUAL INCREASE 6′

MAGNETIC

Eckers Lakeland Dr

Ramp

Driftwood Beach Road

Ramp

Winnebago Pt

Beach Road

Harbor Road

Fl G 6s 15ft "1"

Priv

Ramp

Brothertown Harbor

rky

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Last Correction: 3/5/2010. Cleared through:
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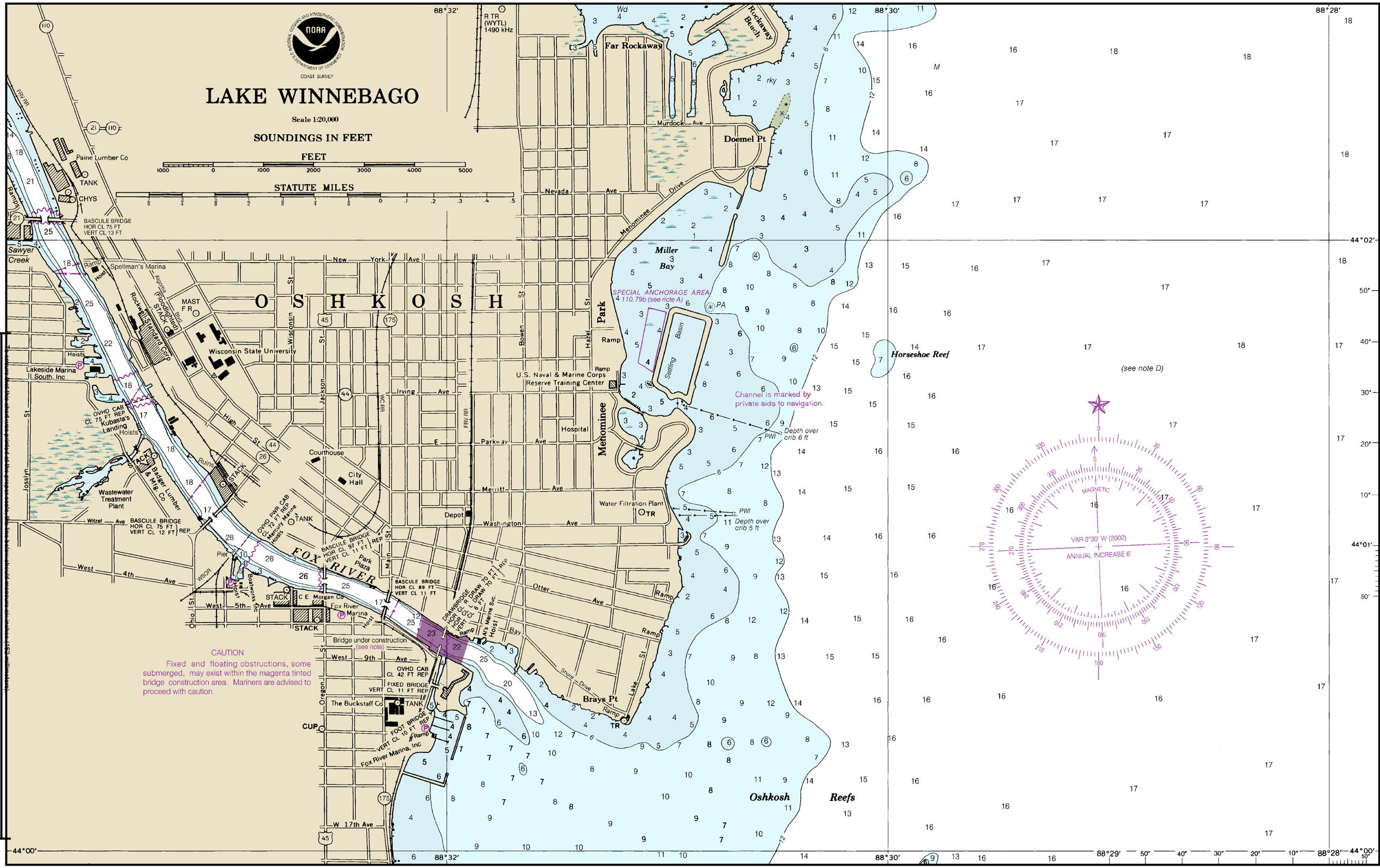
JOINS 16

JOINS 14



14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 11

Last Correction: 4/13/2012. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

The National Ocean Service does not publish navigation charts of lakes and rivers beyond Lake Butte Des Morts Sheet 14.

LAKE WINNEBAGO
LAKE BUTTE DES MORTS

Scale 1:20,000

SOUNDINGS IN FEET

FEET 1000 0 1000 2000 3000 4000 5000

STATUTE MILES 1 7/8 3/4 5/8 1/2 3/8 1/4 1/8 0 .1 .2 .3 .4 .5

COAST SURVEY

LAKE BUTTE DES MORTS

MAGNETIC

VAR 2°30' W (2002)

ANNUAL INCREASE 6'

(see note D)

Shangri La Pt

Sunset Pt

Highland Shore

Leonards Point

Oakwood Point

Melrose Park

Eddies Evergreen Marina

Ramp

Miller's Landing Ramp Hoist

Rainbow Park Ramps

Paine Lumber Co

TANK

CHYS

OSHKOSH

FOX RIVER

Spellmans Marina Ramp Hoist

Sawyer Creek

BASCULE BRIDGE HOR. CL 75 FT. VERT. CL 13 FT.

OVHD PWR CAB FIXED BRIDGES

OVHD PWR CAB CL 78 FT REP

Bridges under construction

FRV RR

CAUTION

Fixed and floating obstructions, some submerged, may exist within the magenta tinted bridge construction area. Mariners are advised to proceed with caution.

88°38′ 88°37′ 50″ 40″ 30″ 20″ 10″ 88°36′ 50″ 88°34′

44°04′ 44°03′ 44°02′

50″ 40″ 30″ 20″ 10″ 50″

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Last Correction: 11/14/2012. Cleared through:
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JOINS13

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 3/4 1/2 1/4 0 .1 .2 .3 .4 .5

COAST SURVEY

88°24′ 88°23′ 50″ 40″ 30″ 20″ 10″ 88°22′ 50″ 88°20′

44°02′ 50″ 40″ 30″ 20″ 10″ 44°01′ 50″ 40″ 30″ 20″ 10″ 44°00′

MAGNETIC

VAR 2°45′ W (2002)

ANNUAL INCREASE 6′

(see note D)

Roberts Creek
Artesian Road
Silo
Dorns Twilight Beach Road
Dorns Twilight Beach
Radio Tower
Joe Road
Konsin Beach
East Winn Road
Ramp
Johnson Creek
Quinney
Silos
Lake Shore Drive
Eckers Lakeland
Eckers Lakeland Drive

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

Island Beach

Fairview Beach

Island Park

Bay

Asylum

North

South

Asylum Bay

Winnebago

Winnebago Mental Health Institute

Winnebago County Hospital

TANK

STACK

TANK

Asylum Point

Sherman Ramp Rd

MAST
Vert Lts
R 2 F R

TR

Piles

Keenville

Libby Pt

Cy

Wds

Rockaway Beach

Far Rockaway

WC RR

FRV RR

88°30′

88°28′

88°27′

88°26′

44°05′

44°04′

(see note D)

MAGNETIC

VAR 2°30′ W (2002)

ANNUAL INCREASE 6′

NOAA

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 .1 .2 .3 .4 .5

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JOINS 17

JOINS 13

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

Last Correction: 7/18/2002. Cleared through:
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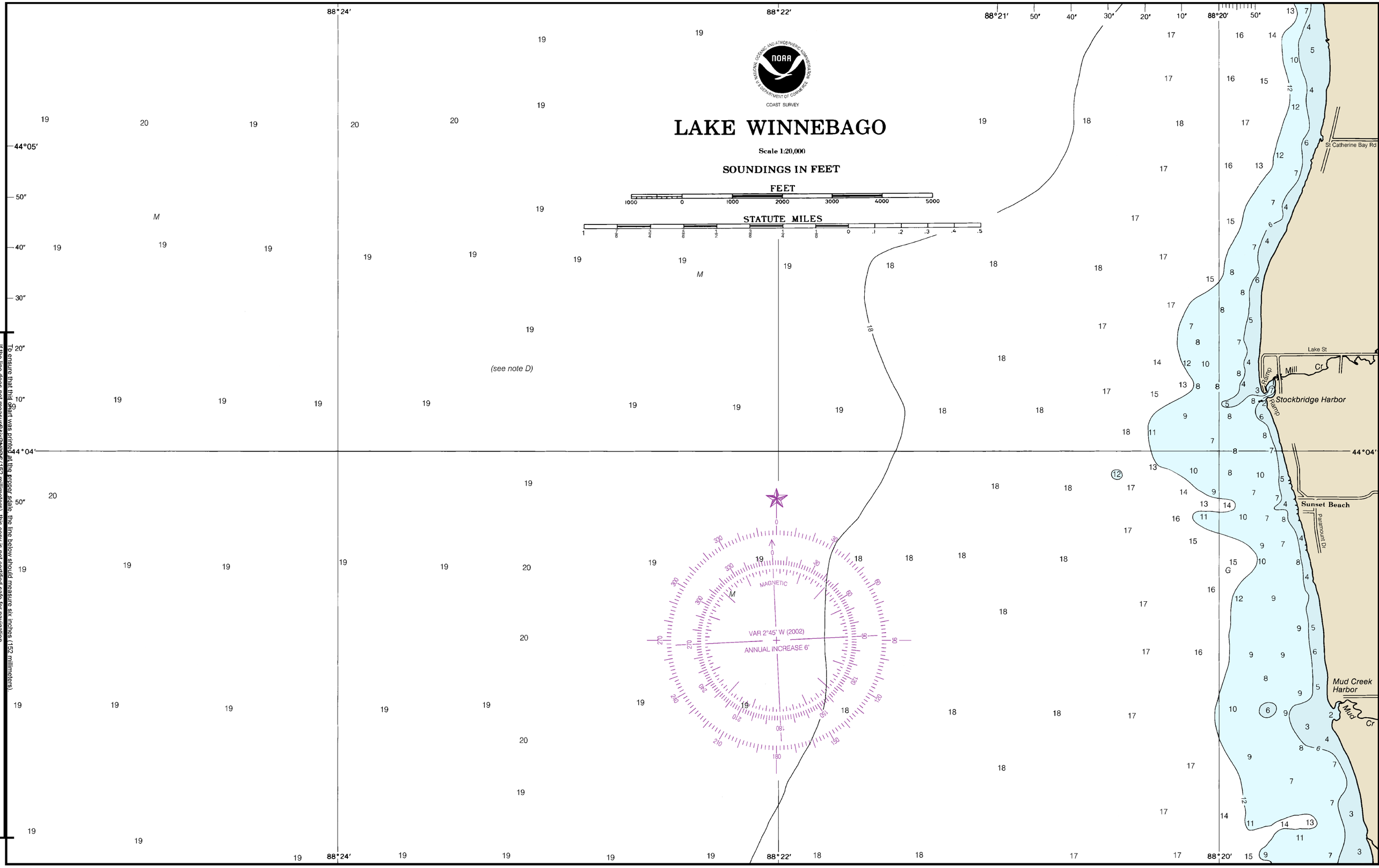

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JOINS 20

88°30′

NOAA

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1/8 1/4 1/8 1/2 3/8 3/4 7/8 0 1 .2 .3 .4 .5

88°28′

Payne Pt

R Mast
(WROE)
3 Vert Lts
Oc R 2 F R

Depth over crib 1 ft

Little Blackbird Reef

88°27′

88°26′

Jenkyns Pt

Cowling Bay

Blackbird Island

Blackbird Reef

(see note D)

GC Priv

GC Priv

Ramp

Indian Pt

Perkins Pt

Island Beach

Island Park

Fairview Beach

North Asylum Bay

MAGNETIC

VAR 2°30′ W (2002)
ANNUAL INCREASE 6′

44°07′

44°06′

50″ 40″ 30″ 20″ 10″

JOINS 19

JOINS 17

JOINS 16

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JOINS 20 KAPP 1424

JOINS 21

88°24′ 88°22′ 88°21′ 50″ 40″ 30″ 20″ 10″ 88°20′ 50″

44°07′ 50″ 40″ 30″ 20″ 10″ 44°06′ 50″

(see note D)

VAR 2°30′ W (2002)
ANNUAL INCREASE 6′
MAGNETIC

Ramp
Harrison Road
Faro Springs Road
Ramp
Dorns Faro Springs Beach
Park
Ramp
Calumet County Park Harbor
Cty EE
Radio Tower
Rockaway Beach
Lake Shore Drive
St. Catherines Bay Road

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET
1000 0 1000 2000 3000 4000 5000

STATUTE MILES
1 7/8 3/4 5/8 1/2 3/8 1/4 1/8 0 .1 .2 .3 .4 .5

JOINS 17

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

STATUTE MILES

NEENAH

Davis Pt

Sunrise Bay

Wheeler Pt

Rainbow Beach

Mansur Bay

Adella Beach

Haystack Reef

Mansur Reef

Stevens Reef

Ricker Bay

Payne Pt

Muttart Rd

Bayview Rd

S Park Dr

S Commercial St

R MAST
3 Vert Lts F R

R MAST
3 Vert Lts F R

R TR
3 Vert Lts
Oc R 2 F R
(WNAM)
1280 kHz

R Relay Mast
3 Vert Lts
Oc R 2 F R

Pile

(see note D)

MAGNETIC

VAR 2°45' W (2002)

ANNUAL INCREASE 6'

88°28′ 88°26′ 88°25′ 50″ 40″ 30″ 20″ 10″ 88°24′ 50″

44°10′ 44°09′ 50″ 40″ 30″ 20″ 10″ 44°08′ 50″

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88°22′ 88°21′ 50″ 40″ 30″ 20″ 10″ 88°20′ 50″ 88°18′

44°10′ 44°09′ 50″ 40″ 30″ 20″ 10″ 44°08′ 50″

(see note D)

MAGNETIC
VAR 2°45′ W (2002)
ANNUAL INCREASE 6′

Ramps
High Cliff State Park
CHY Limekiln
TV RELAY TR
3 Vert Lts
Oc R 2 F R
QUARRY
CLIFF
HIGH
Harrison
Harrison Rd
Ramp
55

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
DEPARTMENT OF COMMERCE
COAST SURVEY

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET
1000 0 1000 2000 3000 4000 5000

STATUTE MILES
1/8 1/4 3/8 1/2 5/8 3/4 7/8 0 .1 .2 .3 .4 .5

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CONTINUED ON 25

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 0 1 2 3 4 5

COAST SURVEY

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 20

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

LAKE WINNEBAGO

Scale 1:20,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000 4000 5000

STATUTE MILES

1 7/8 3/4 5/8 1/2 3/8 1/4 1/8 0 .1 .2 .3 .4 .5

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
COAST SURVEY

88°22′ 88°21′ 50″ 40″ 30″ 20″ 10″ 88°20′ 50″ 88°18′

44°12′ 50″ 40″ 30″ 20″ 10″ 44°11′ 50″ 44°10′

Utowana Beach
Obstn
Obstn
North Shore Golf Club, Inc
Ruins
WC RR
Highland Beach
Ramp
Ramps
High Cliff State Park
(see note D)

VAR 2°45′ W (2002)
ANNUAL INCREASE 6′
MAGNETIC

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 21

Last Correction: 7/18/2002. Cleared through:
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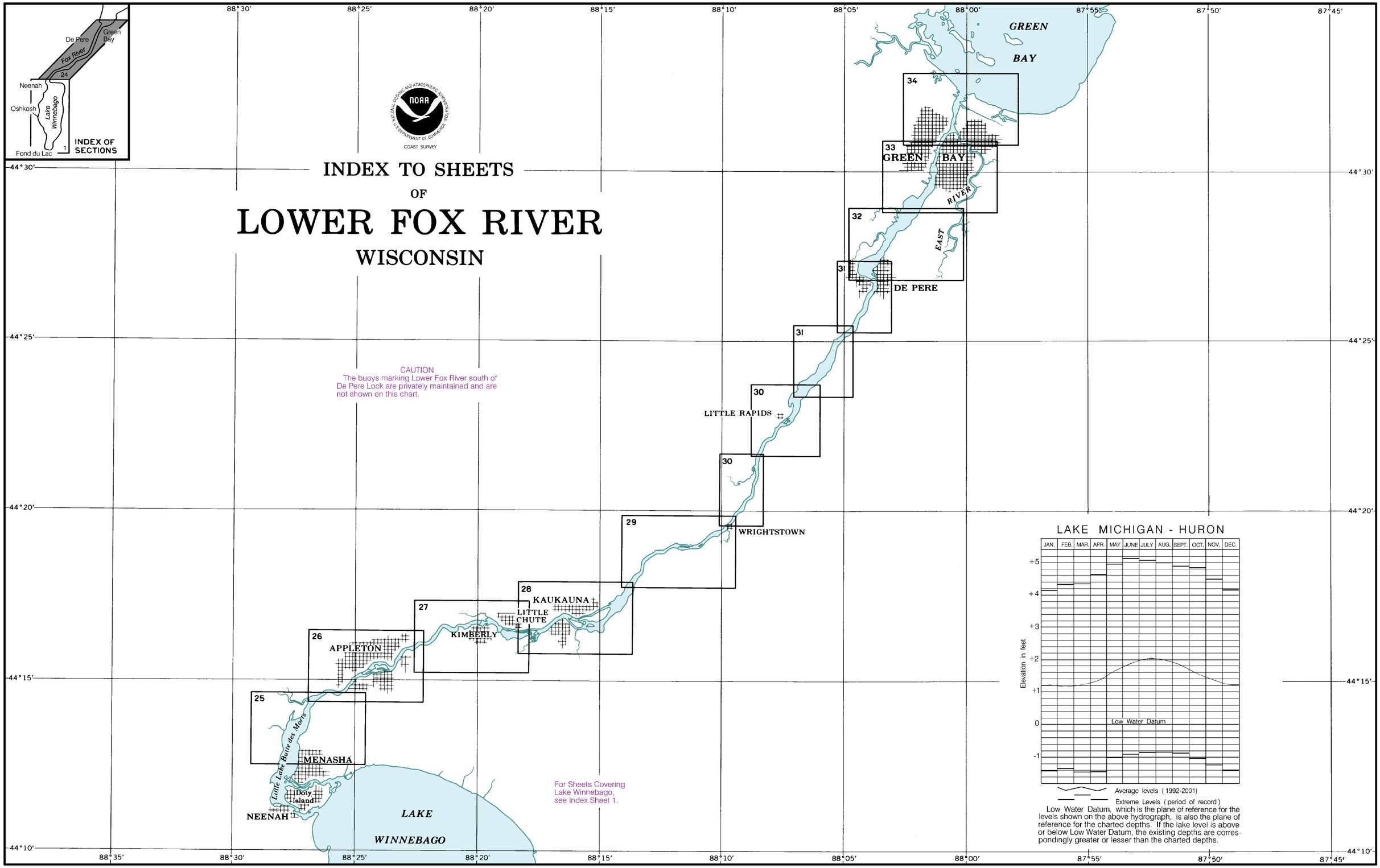
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
COAST SURVEY

INDEX TO SHEETS OF LOWER FOX RIVER WISCONSIN

CAUTION
The buoys marking Lower Fox River south of De Pere Lock are privately maintained and are not shown on this chart.



Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

Last Correction: 7/18/2002. Cleared through:
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88°29′ 88°28′ 88°27′ 88°26′ 88°25′

44°14′

44°13′

APPLETON

MENASHA

STROEBE ISLAND

LAKE BUTTE DES MORTS

LITTLE LAKE BUTTE

Mud Cr

Gravel Pit

Obstn

Obstns

Wds

TR

TRS

OVHD PWR CABS CL 64 FT REP

OVHD PWR CABS CL 56 FT REP

Power Transmission Lines

TANK

Geo Banta Co

FIXED BRIDGE HOR CL 217 FT VERT CL 54 FT

Hoist

Ramp

Sewer

Park

Ninth St

Eighth St

Seventh St

Racine St

Tayco St

WC RR

FRV RR

MAGNETIC

VAR 2°30′ W (2002)

ANNUAL INCREASE 6′

NOAA

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

COAST SURVEY

LOWER FOX RIVER

Scale 1:15,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000

STATUTE MILES

1/2 1/4 0 .1 .2 .3 .4 .5

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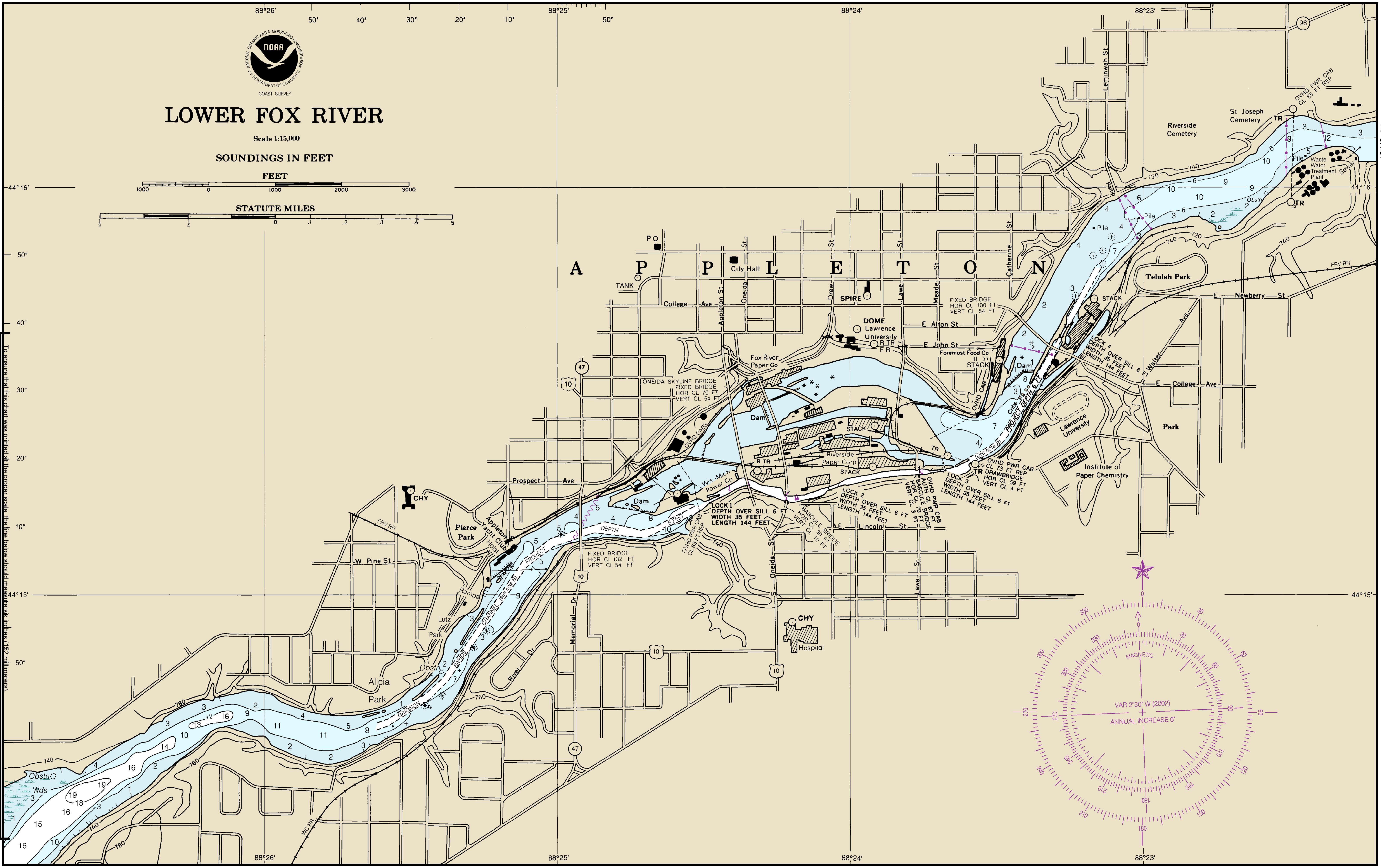
CONTINUED ON 22

Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)


COAST SURVEY
LOWER FOX RIVER
Scale 1:15,000
SOUNDINGS IN FEET
FEET
1000 0 1000 2000 3000
STATUTE MILES
88°26′
88°25′
88°24′
88°23′
44°16′
44°15′
A P P L E T O N
PO
City Hall
TANK
College Ave
Appleton St
Oneida St
Drew St
Lawe St
Meade St
Catherine St
Leminwah St
SPIRE
DOME
Lawrence University
E Alton St
E John St
Foremost Food Co
Fox River Paper Co
ONEIDA SKYLINE BRIDGE
FIXED BRIDGE
HOR CL 70 FT
VERT CL 54 FT
Dam
OVHD CABS
Riverside Paper Corp
STACK
R TR
Wis-Mich Power Co
LOCK 1
DEPTH OVER SILL 6 FT
WIDTH 35 FEET
LENGTH 144 FEET
BASCULE BRIDGE
HOR CL 30 FT
VERT CL 10 FT
LOCK 2
DEPTH OVER SILL 6 FT
WIDTH 35 FEET
LENGTH 144 FEET
OVHD PWR CAB
AUTH CL 67 FT
BASCULE BRIDGE
HOR CL 70 FT
VERT CL 3 FT
LOCK 3
DEPTH OVER SILL 6 FT
WIDTH 35 FEET
LENGTH 144 FEET
OVHD PWR CAB
CL 73 FT REP
TR DRAWBRIDGE
HOR CL 59 FT
VERT CL 4 FT
LOCK 4
DEPTH OVER SILL 6 FT
WIDTH 35 FEET
LENGTH 144 FEET
FIXED BRIDGE
HOR CL 100 FT
VERT CL 54 FT
PROJECT DEPTH 6 FT
Cribs
(see note B)
Institute of Paper Chemistry
Telulah Park
Park
E Newberry St
E College Ave
Walter Ave
FRV RR
Riverside Cemetery
St Joseph Cemetery
OVHD PWR CAB
CL 85 FT REP
Waste Water Treatment Plant
Sewer
Pile
Obstn
Ramp
CHY
Pierce Park
Appleton Yacht Club
Hoist
Prospect Ave
W Pine St
Ramps
Lutz Park
Alicia Park
GRIGNON RAPIDS
CHANNEL
DEPTH 6 FEET
FIXED BRIDGE
HOR CL 132 FT
VERT CL 54 FT
OVHD PWR CAB
CL 83 FT REP
Memorial Dr
River Dr
S Oneida St
E Lincoln St
Hospital
WC RR
Wds
MAGNETIC
VAR 2°30′ W (2002)
ANNUAL INCREASE 6′
JOINS 27
JOINS 25

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14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

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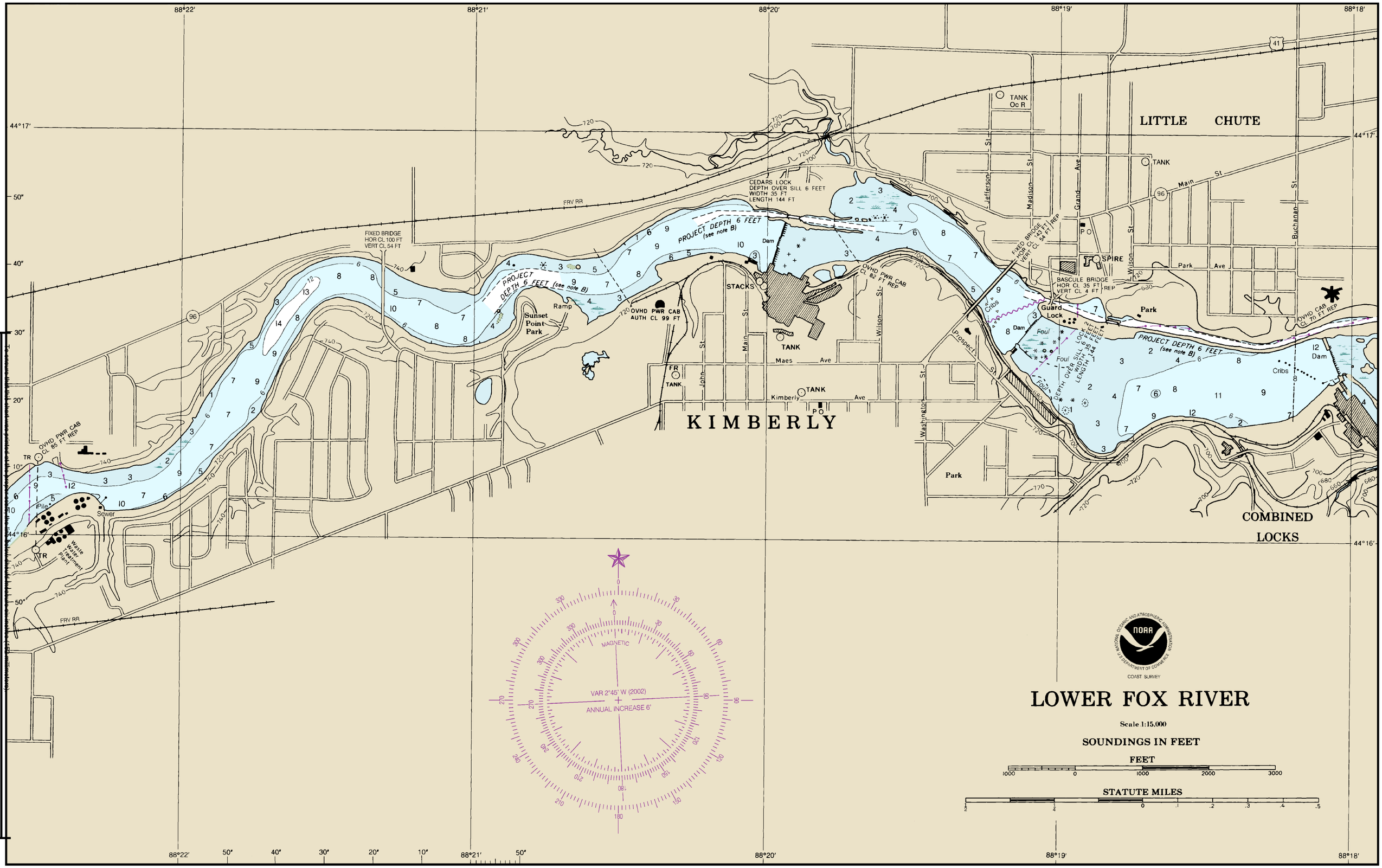


LOWER FOX RIVER

Scale 1:15,000

SOUNDINGS IN FEET

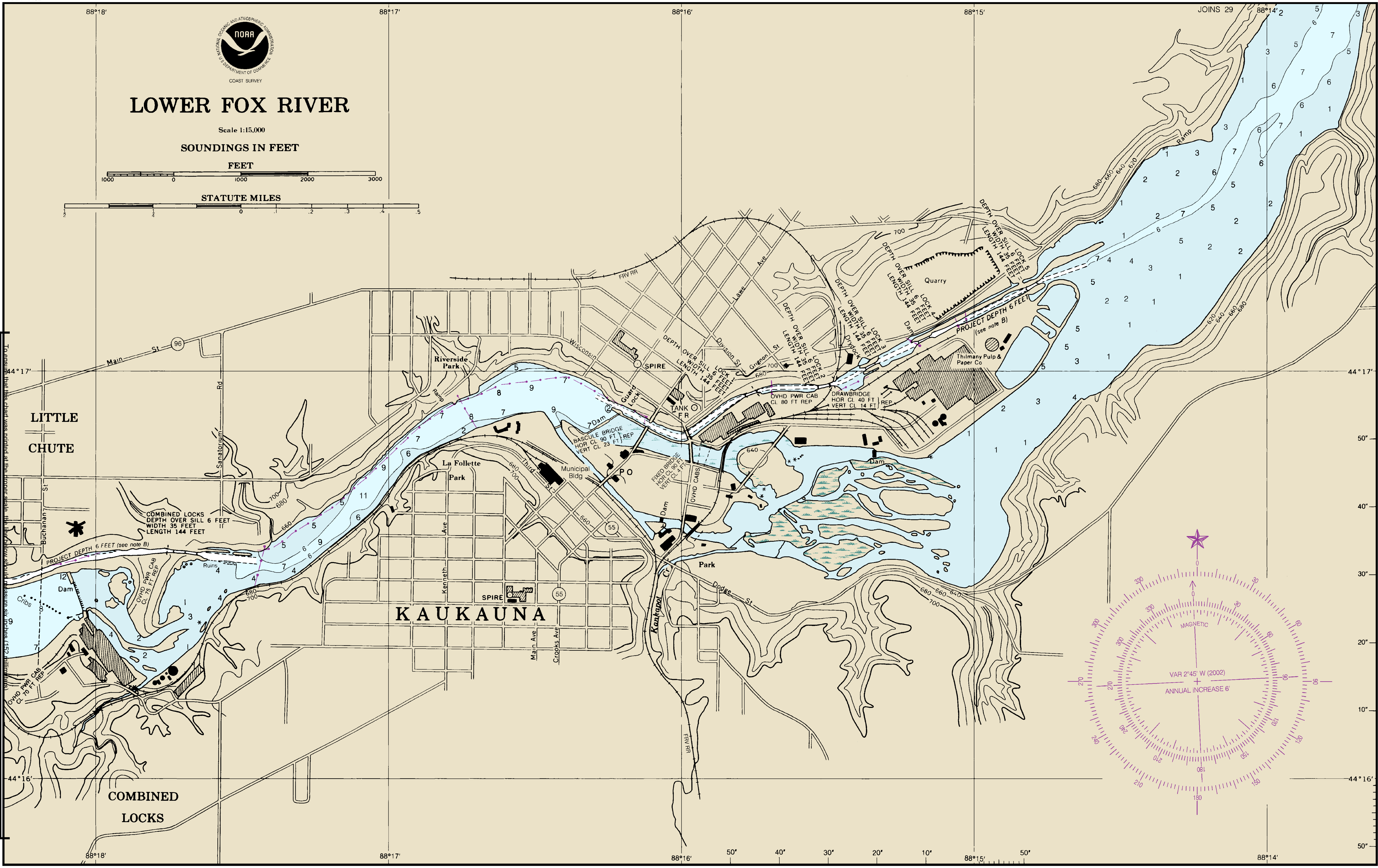
FEET

1000 0 1000 2000 3000

STATUTE MILES

1/2 1/4 0 .1 .2 .3 .4 .5

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02
Last Correction: 7/18/2002. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)


LOWER FOX RIVER
Scale 1:15,000
SOUNDINGS IN FEET
FEET
STATUTE MILES
JOINS 29
LITTLE CHUTE
COMBINED LOCKS
KAUKAUNA
COMBINED LOCKS DEPTH OVER SILL 6 FEET WIDTH 35 FEET LENGTH 144 FEET
PROJECT DEPTH 6 FEET (see note B)
OVHD PWR CAB CL 75 FT REP
OVHD PWR CAB CL 70 FT REP
Riverside Park
La Follette Park
Municipal Bldg
Guard Lock
BASCULE BRIDGE HOR CL 90 FT VERT CL 23 FT REP
FIXED BRIDGE HOR CL 90 FT VERT CL 4 FT
OVHD CABS
LOCK 1 DEPTH OVER SILL 6 FEET WIDTH 35 FEET LENGTH 144 FEET
LOCK 2 DEPTH OVER SILL 6 FEET WIDTH 35 FEET LENGTH 144 FEET
LOCK 3 DEPTH OVER SILL 6 FEET WIDTH 35 FEET LENGTH 144 FEET
LOCK 4 DEPTH OVER SILL 6 FEET WIDTH 35 FEET LENGTH 144 FEET
LOCK 5 DEPTH OVER SILL 6 FEET WIDTH 35 FEET LENGTH 144 FEET
OVHD PWR CAB CL 80 FT REP
DRAWBRIDGE HOR CL 40 FT VERT CL 14 FT REP
Thilmany Pulp & Paper Co
Quarry
Drydock
SPIRE
TANK
PO
Park
Kankapot Cr
FRV RR
VAR 2°45' W (2002) ANNUAL INCREASE 6'
MAGNETIC

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02
Last Correction: 7/18/2002. Cleared through:
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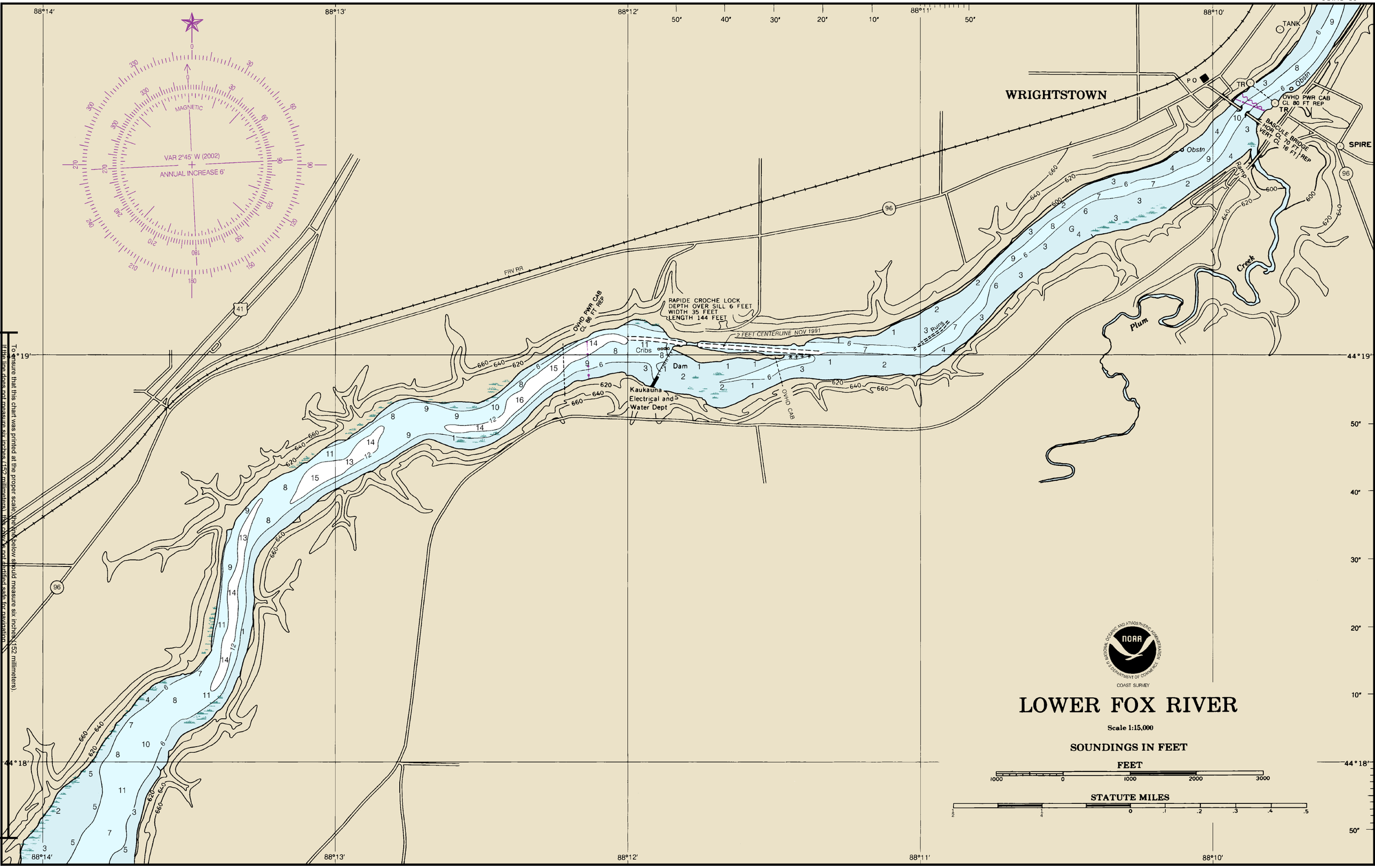
JOINS 30



LOWER FOX RIVER

Scale 1:15,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000

STATUTE MILES

½ ¼ 0 .1 .2 .3 .4 .5

NOAA — NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION — U.S. DEPARTMENT OF COMMERCE — COAST SURVEY

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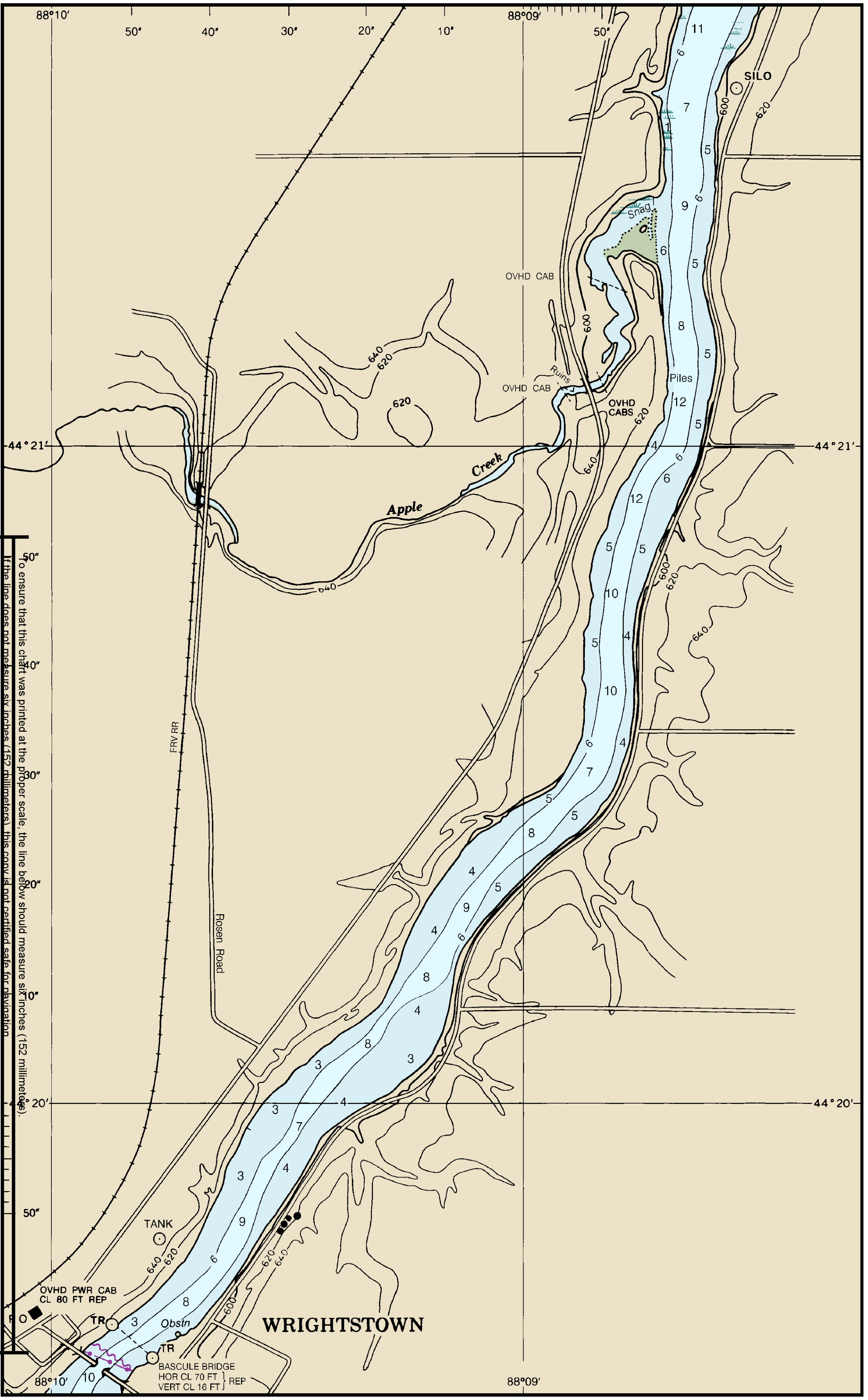

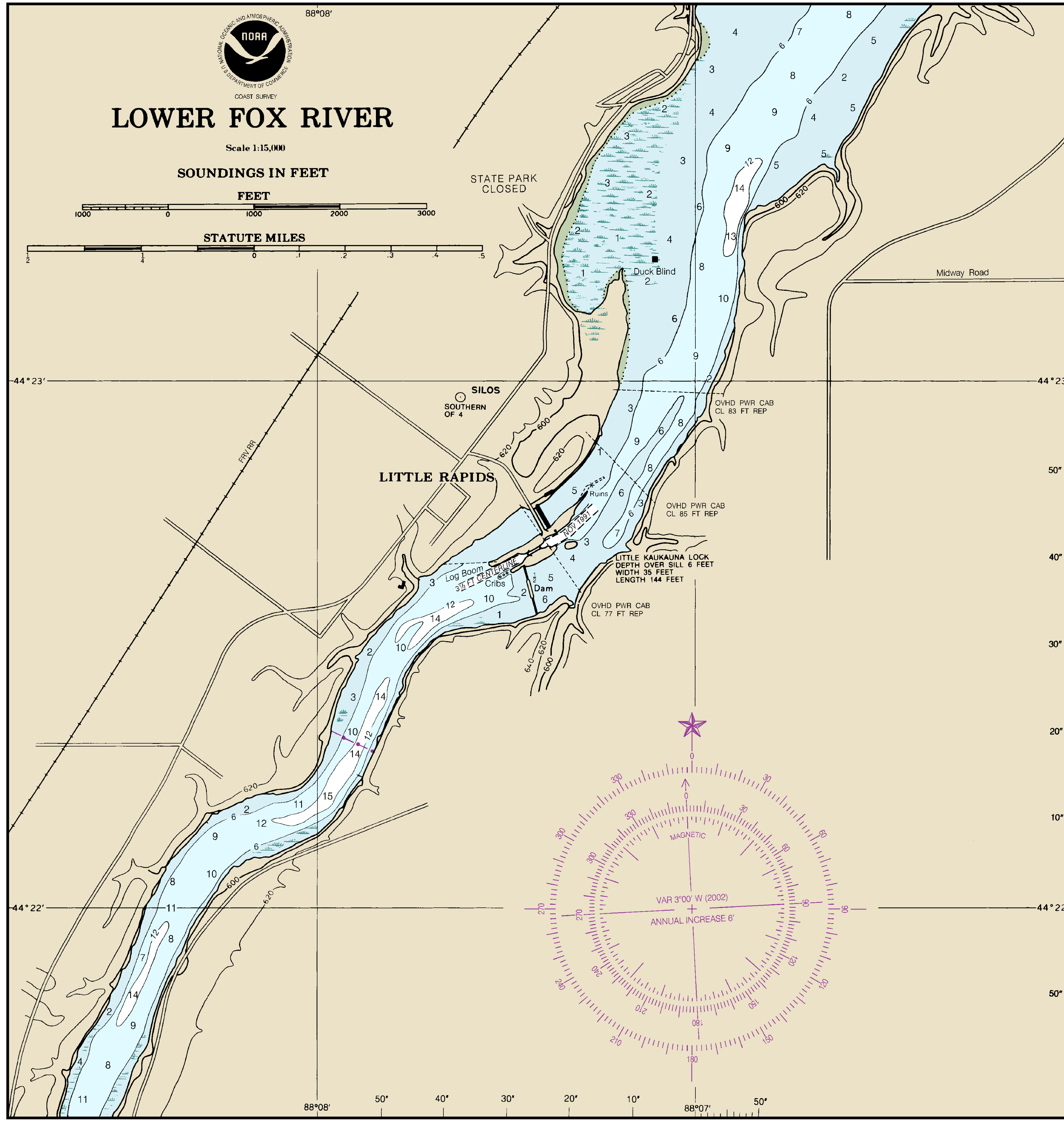
88°08′
NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
COAST SURVEY
LOWER FOX RIVER
Scale 1:15,000
SOUNDINGS IN FEET
FEET
1000 0 1000 2000 3000
STATUTE MILES
1/2 1/4 0 .1 .2 .3 .4 .5
STATE PARK
CLOSED
Duck Blind
Midway Road
44°23′
SILOS
SOUTHERN OF 4
OVHD PWR CAB
CL 83 FT REP
FRV RR
LITTLE RAPIDS
Ruins
OVHD PWR CAB
CL 85 FT REP
NOV 1991
LITTLE KAUKAUNA LOCK
DEPTH OVER SILL 6 FEET
WIDTH 35 FEET
LENGTH 144 FEET
Log Boom
3½ FT CENTERLINE
Cribs
Dam
OVHD PWR CAB
CL 77 FT REP
MAGNETIC
VAR 3°00′ W (2002)
ANNUAL INCREASE 6′
44°22′
88°08′
50″
40″
30″
20″
10″
88°07′
50″

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02
Last Correction: 7/18/2002. Cleared through:
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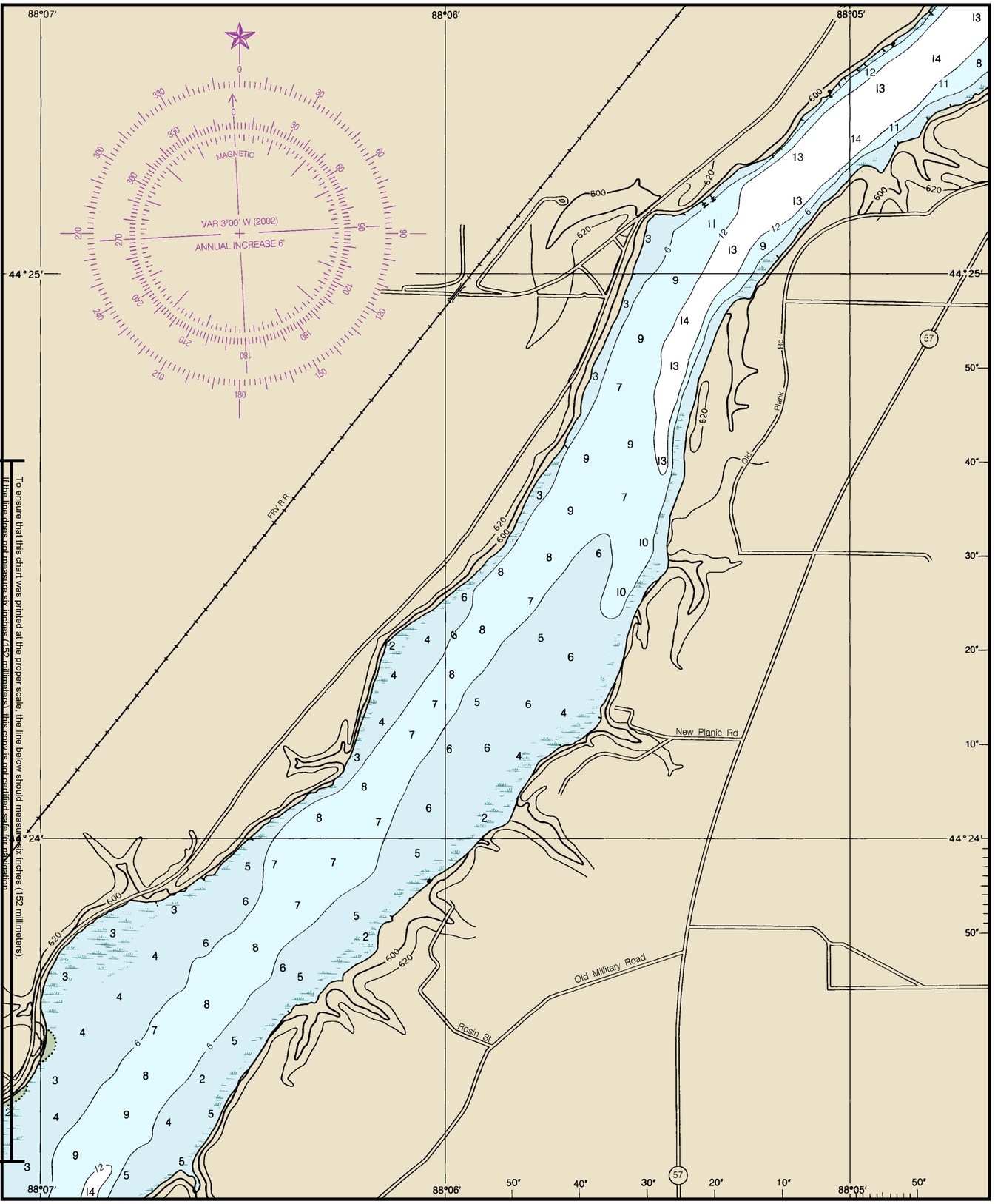
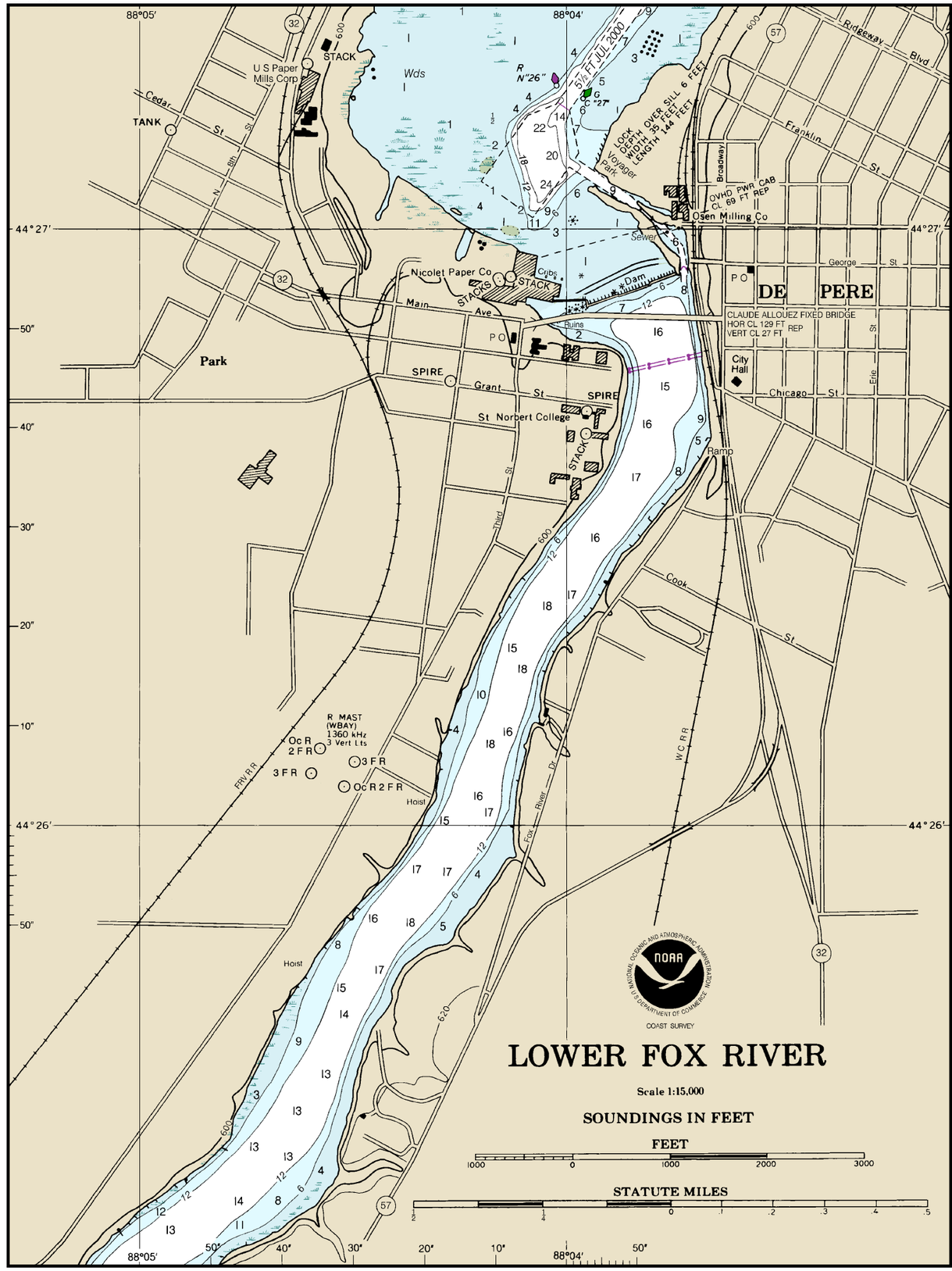
KAPP 1437

JOINS LOWER RIGHT

KAPP 1436

JOINS 32





LOWER FOX RIVER

Scale 1:15,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000

STATUTE MILES

½ ¼ 0 .1 .2 .3 .4 .5

JOINS 30

14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS UPPER LEFT

Last Correction: 5/7/2013. Cleared through:
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COAST SURVEY

LOWER FOX RIVER

Scale 1:15,000

SOUNDINGS IN FEET

FEET

1000 0 1000 2000 3000

STATUTE MILES

1/2 1/4 0 .1 .2 .3 .4 .5

88°04′ 88°03′ 88°02′ 88°01′

44°28′ 44°27′

50″ 40″ 30″ 20″ 10″

Lakeside Marina

FIXED BRIDGE
HOR CL 150 FT
VERT CL 60 FT

Heritage Hill State Park

Cooke Park

Dutchman Creek

Ramp

Jones Pt

STACK

Wisconsin State Reformatory

Wall

S' PIPE

OVHD CAB

Ashwaubomay Park

Ashland Ave

FRV RR

Ramp

OVHD CAB

Creek

Ramps

Incinerator

Brown County Fair Grounds

Sewage Treatment Plant

5½ FEET JUL 2000

Ashwaubenon Creek

Ramp

Pipe

Stadium

WC RR

St Norbert Abbey

Ridgeway Blvd

TANK

U S Paper Mills Corp

Wds

LOCK DEPTH OVER SILL 6 FEET
DEPTH 35 FEET
WIDTH 35 FEET
LENGTH 144 FEET

Voyager Park

DE PERE

Franklin St

Broadway

OVHD PWR CAB
CL 69 FT REP

Osen Milling Co

Sewer

Nicolet Paper Co

Cribs

STACK

Dam

Main Ave

Ruins

CLAUDE ALLOUEZ FIXED BRIDGE
HOR CL 129 FT REP
VERT CL 27 FT

George St

Fire St

Webster Ave

Libal Street

Hoffman Road

Bellevue Ave

East River

Bower Creek

OVHD CAB

OVHD CAB

OVHD CAB

MAGNETIC

VAR 3°00′ W (2002)

ANNUAL INCREASE 6′

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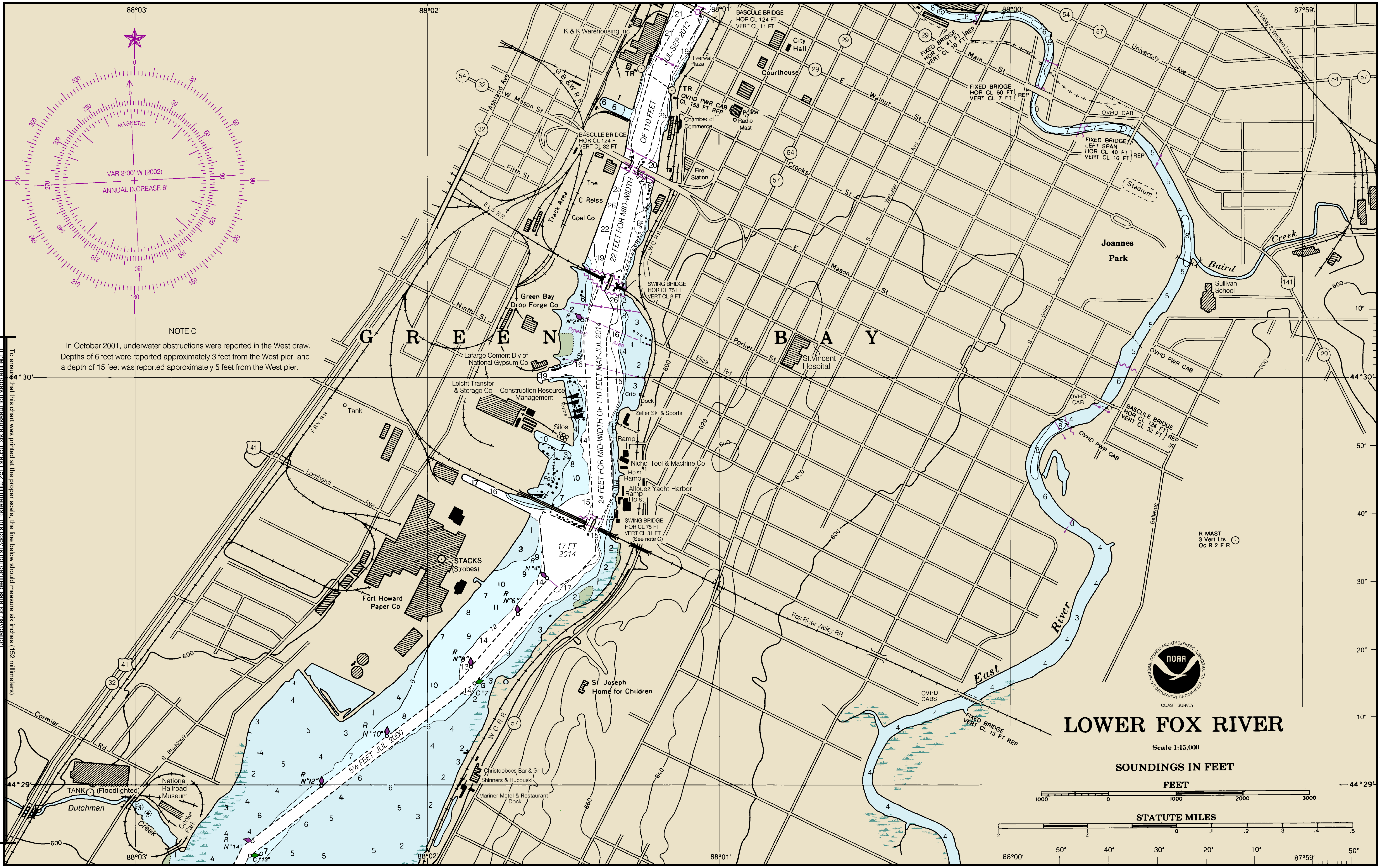
14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 31

Last Correction: 5/7/2013. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

JOINS 34


88°03'
88°02'
88°01'
88°00'
87°59'
VAR 3°00' W (2002)
ANNUAL INCREASE 6'
MAGNETIC
NOTE C
In October 2001, underwater obstructions were reported in the West draw. Depths of 6 feet were reported approximately 3 feet from the West pier, and a depth of 15 feet was reported approximately 5 feet from the West pier.
44°30'
44°29'
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K & K Warehousing Inc
BASCULE BRIDGE
HOR CL 124 FT
VERT CL 11 FT
City Hall
Courthouse
Riverwalk Plaza
JUL-SEP 2012
OF 110 FEET
22 FEET FOR MID-WIDTH
24 FEET FOR MID-WIDTH OF 110 FEET MAY-JUL 2014
TR
OVHD PWR CAB
CL 153 FT REP
Chamber of Commerce
Police Radio Mast
G B & W R R
Ashland Ave
W Mason St
BASCULE BRIDGE
HOR CL 124 FT
VERT CL 32 FT
Fifth St
The C Reiss Coal Co
Track Area
E L S R R
Fire Station
Crooks St
Webster Ave
E Mason St
W C R R
SWING BRIDGE
HOR CL 75 FT
VERT CL 8 FT
Green Bay Drop Forge Co
Ninth St
G R E E N B A Y
R N"2"
Pipeline Area
Lafarge Cement Div of National Gypsum Co
Leicht Transfer & Storage Co
Construction Resource Management
Ruins
Silos
Crib
Dock
Zeller Ski & Sports
Ramp
Nichol Tool & Machine Co
Hoist
Ramp
Allouez Yacht Harbor
Ramp
Hoist
Foul
SWING BRIDGE
HOR CL 75 FT
VERT CL 31 FT
(See note C)
Porlier St
Eliza Rd
St. Vincent Hospital
S Baird St
Tank
F R V R R
Lombardi Ave
17 FT 2014
STACKS (Strobes)
R N"4"
R N"6"
R N"8"
G C "7"
Fort Howard Paper Co
St Joseph Home for Children
Fox River Valley RR
R N"10"
R N"12"
R N"14"
G C "13"
5½ FEET JUL 2000
Christopbees Bar & Grill
Shinners & Hucouski
Mariner Motel & Restaurant Dock
Cormier Rd
S Broadway
TANK (Floodlighted)
National Railroad Museum
Dutchman Creek
Cooke Park
FIXED BRIDGE
HOR CL 41 FT
VERT CL 10 FT
REP
Main St
University Ave
Fox Valley & Western Ltd
FIXED BRIDGE
HOR CL 60 FT
VERT CL 7 FT
REP
OVHD CAB
FIXED BRIDGE
LEFT SPAN
HOR CL 40 FT
VERT CL 10 FT
REP
Stadium
Joannes Park
Baird Creek
Sullivan School
OVHD PWR CAB
OVHD CAB
BASCULE BRIDGE
HOR CL 124 FT
VERT CL 32 FT
REP
OVHD PWR CAB
Bellevue
R MAST
3 Vert Lts
Oc R 2 F R
East River
OVHD CABS
FIXED BRIDGE
VERT CL 13 FT REP
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
NOAA
COAST SURVEY
LOWER FOX RIVER
Scale 1:15,000
SOUNDINGS IN FEET
FEET
1000 0 1000 2000 3000
STATUTE MILES
½ ¼ 0 .1 .2 .3 .4 .5

Last Correction: 3/10/2015. Cleared through:
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(CONTINUED ON CHART 14918)


LOWER FOX RIVER
Scale 1:15,000
SOUNDINGS IN FEET
FEET
STATUTE MILES
COAST SURVEY
GREEN BAY
WILDLIFE SANCTUARY
Spoil Area
22½ FEET FOR MID-WIDTH OF 150 FEET OCT 2014
20 FEET JUL 2014
VAR 3°00' W (2002)
ANNUAL INCREASE 6'
MAGNETIC
Green Bay Terminal, Corp
Clark Oil & Refining Corp
Cities Service Oil Co
Wisconsin Public Service Corp
Koch Fuels Inc
F Hurlbut Co
FIXED BRIDGE HOR CL 402 FT VERT CL 120 FT
Mobil Oil Corp
River View Park
Amoco Oil Co
Wisconsin Fishing Co
SWING BRIDGE HOR CL R DRAW 84 FT HOR CL L DRAW 84 FT VERT Cl 7 FT
The Western Lime & Cement Co
Leicht Transfer & Storage Co
BASCULE BRIDGE HOR CL 124 FT VERT CL 11 FT
BASCULE BRIDGE HOR CL 120 FT VERT CL 12 FT
K & K Wharehousing Inc
Pipeline Area
Depth over Intake 7 ft
NOS Gauge
R "30" Fl R 2.5s
Q 8ft Priv
F G 11ft Priv
F R 11ft Priv
7ft rep 1999
McDonald Marina
McDonald Warehouses
US Coast Guard Station
Green Bay Yacht Club Inc
Stacks (Floodlighted)
Metropolitan Sewerage District
Tosca Ltd
Bay Beach Park
OVHD PWR CAB CL 155 FT REP
OVHD PWR CAB CL 159 FT REP
OVHD PWR CAB CL 66 FT REP
OVHD PWR CAB CL 61 FT REP
Green Bay Packaging Inc
Procter & Gamble Products Co
STACK 2 Vert Lts Strobes
Depth over crib 17 ft
Fort James
Wisconsin Public Service Corp
Holiday Inn
FIXED BRIDGE HOR CL 60 FT VERT CL 13 FT REP
F G 15ft Priv
FIXED BRIDGE HOR CL 41 FT VERT CL 10 FT REP
EAST RIVER
Younkes Co
City Hall
Fox Valley and Western Ltd
East Shore Dr
Mather St
Dousman St
Walnut St
University Ave
Eastman Ave
Day St
Weise St
Perrot St

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14916 10th Ed., Jul. /02; Corrected through NM Jul. 27/02, LNM Jul. 16/02

JOINS 33

Last Correction: 7/24/2015. Cleared through:
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MARINE WEATHER INFORMATION

DECODE FOR LAKE AND SEAWAY MARINE FORECASTS (MAFOR)

MAFOR YYG_1G_1/ *(NAME OF LAKE)* $1GDF_mW_1$

KEYWORD *(Indicating Marine Forecast)*	DAY OF MONTH *(GMT)*	TIME *(GMT)* FORECAST PERIOD BEGINS	SOLIDUS	NAME OF LAKE OR SEAWAY*	GROUP INDICATOR	FORECAST PERIOD	WIND DIRECTION	WIND SPEED	FORECAST WEATHER	HEIGHT OF WAVES IN FEET AT END OF THE MESSAGE FOR EACH LAKE, FOR THE ENTIRE PERIOD
	YY	G_1G_1				G	D	F_m	W_1	
MAFOR	06	12	/	SUPERIOR*	1	6	8	3	0	WAVES 5 TO 10 FEET

G - FORECAST PERIOD

0 - Conditions at beginning of forecast period
1 - Valid for 3 hours
2 - Valid for 6 hours
3 - Valid for 9 hours
4 - Valid for 12 hours
5 - Valid for 18 hours
6 - Valid for 24 hours
7 - Valid for 48 hours
8 - Valid for 72 hours
9 - Occasionally

D - WIND DIRECTION

0 - Calm
1 - Northeast
2 - East
3 - Southeast
4 - South
5 - Southwest
6 - West
7 - Northwest
8 - North
9 - Variable

F_m - WIND SPEED

0 - 0 to 10 knots
1 - 11 to 16 knots
2 - 17 to 21 knots
3 - 22 to 27 knots
4 - 28 to 33 knots
5 - 34 to 40 knots
6 - 41 to 47 knots
7 - 48 to 55 knots
8 - 56 to 63 knots
9 - 64 knots & above

W_1 - FORECAST WEATHER

0 - Moderate or good visibility, more than 3 nautical miles
1 - Risk of accumulation of ice on superstructures (Temp. 23° to 32° F.)
2 - Strong risk, accumulation of ice on superstructures (Temp. below 23°F.)
3 - Mist (visibility ⅝ to 3 nautical miles)
4 - Fog (visibility less than ⅝ nautical miles)
5 - Drizzle
6 - Rain
7 - Snow, or rain and snow
8 - Squally weather with or without showers
9 - Thunderstorms

*Statement in plain language of Gale or Storm Warnings, if any are in effect, will follow the name of lake or seaway. Small Craft Advisories are not included in Mafor broadcasts. Time of warnings are in Eastern Standard Time (EST).

The forecast $1GDF_mW_1$ may be repeated as many times as necessary to describe the changes in wind and weather expected in a given area during the 24-hour forecast period. The forecast $1GDF_mW_1$ in which G=1-8, refers to the forecast weather commencing at the time given in the group YYG_1G_1/ and continuing through the period indicated by G. Subsequent $1GDF_mW_1$ (G=1-8) indicate the period of time that the described weather is forecast to persist, commencing at the end of the period specified in the preceding group $1GDF_mW_1$ (G=1-8). Any forecast $1GDF_mW_1$ (G=1-8) may be followed by $1GDF_mW_1$ (G=9); in such cases, G=9 indicates a phenomenon forecast to occur occasionally in the forecast period. On occasion, plain language words are used to describe weather conditions not easily described by the code tables; times are stated in EST.

Wave forecast indicates the expected wave heights at the downwind end or side of the lake; this being tne area where the wave height buildup is greatest. Times in EST. Wave heights are usually specified as a range for the 24-hour period, but significant changes (generally variations of more than 5 feet) will be stated.

Forecast periods begin at 0000, 0600, 1200 and 1800 Greenwich Mean Time; equivalent Eastern Standard Times are 7 pm, 1 am, 7 am and 1 pm, respectively.

SCHEDULED MAFOR WEATHER FORECASTS (BY MARINE RADIOTELEPHONE STATIONS)

CITY & STATION	FREQUENCY	SCHEDULE (EST)	LOCATION
Pickford, MI KIL 923	156.85 MHz (Chan. 17)	12:02 & 6:02 AM & PM	
Rogers City, MI WLC	2514 kHz (Chan. 57) 4369.8 kHz 161.9 MHz (Chan. 26)	6:17 AM & PM 12:17 PM EST	45°24′19″N 83°46′16″W
Sturgeon Bay, WI KVY 604	161.850 MHz (Chan. 17)	12:02 & 6:02 AM & PM	
Port Washington, WI KVY 605	161.850 MHz (Chan. 17)	12:02 & 6:02 AM & PM	43°20′36″N 87°52′36″W

Emergency and Calling Frequency: 2182 kHz (Chan. 51) & 156.8 MHz (Chan. 16) VHF

CONTINUOUS WEATHER BROADCASTS (By National Weather Service Radio Stations)

CITY	STATION	FREQUENCY	SCHEDULE
Green Bay, WI	KIG-65	162.55 MHz	24 hours a day
Sheboygan, WI	WWG-91	162.425 MHz	24 hours a day

Marine Weather Services Charts — Published by NOAA, National Weather Service—Two of the series of 15 charts covering U.S. Waters pertain to the Great Lakes. One covers Lakes Huron, Erie and Ontario, the other Lakes Michigan and Superior. Each lists Radio Broadcast Stations that carry Marine Weather Information, their schedules and the location of their antennas. The entire series of charts is sold by the National Aeronautical Charting Office, FAA Distribution Division (AVN-530), Riverdale, Maryland 20737-1199.

COAST GUARD RADIO BROADCAST NOTICES TO MARINERS AND MARINE WEATHER

CITY & STATION	FREQUENCY	SCHEDULE (EST)	LOCATION
Sturgeon Bay, MI NMP-9	157.1 MHz (Chan. 22)	Every 3 hours beginning at 8:55 PM	44°54′06″N 87°22′05″W
Two Rivers, WI NMP-9	157.1 MHz (Chan. 22)	Every 3 hours beginning at 8:55 PM	44°08′08″N 87°33′05″W
Milwaukee, WI NMP-9	157.1 MHz (Chan. 22)	Every 3 hours beginning at 8:55 PM	43°06′06″N 87°53′18″W

Gale and storm warnings are broadcast on receipt by selected U.S. Coast Guard Stations.

MARINE WEATHER FORECASTS National Weather Service

CITY	TELEPHONE NUMBER	SCHEDULE
Green Bay, WI	920-494-5845	8 AM - 4 PM M-F Recorded forecasts only at other times.
Milwaukee,WI	414-744-8000* 262-965-2071	24 HOURS NOON - 3 PM

* Recorded forecasts only.

Weather forecasts and warnings may also be received from Standard Broadcast Stations (AM & FM). Consult local newspapers for broadcast schedules.

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